Nintex Reporting 2008

Software Development Kit

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OVERVIEW

Welcome to the Nintex Reporting 2008 Software Development Kit (SDK). This document is intended for developers and includes technical documentation of the database and XML schemas, as well as easy to follow "how to's" with code examples.

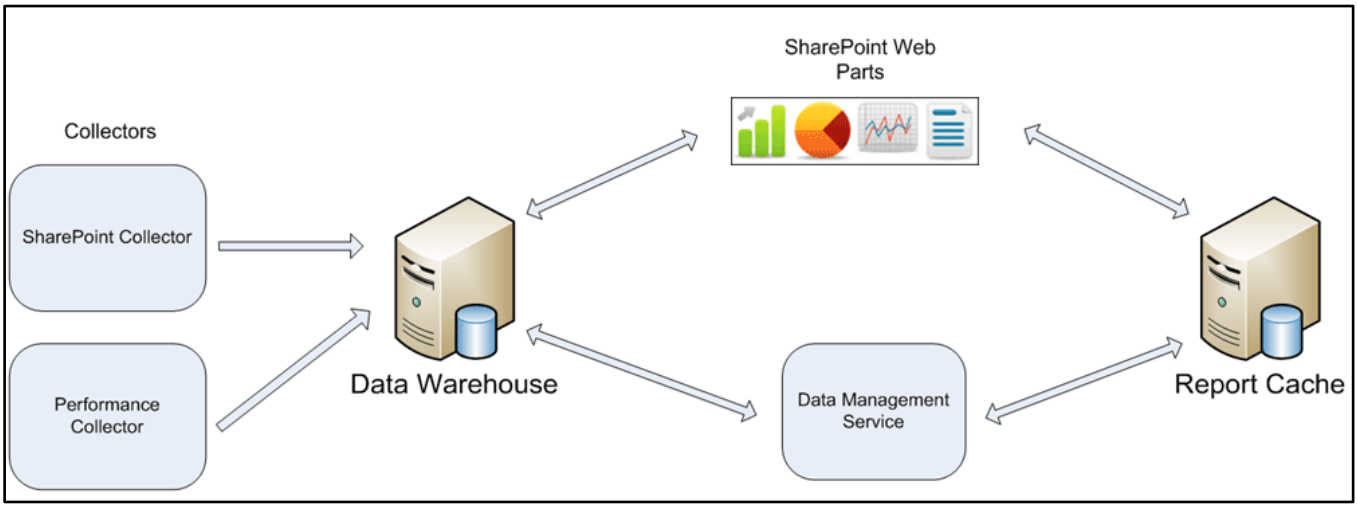
This SDK will be updated to include new API documentation and practical examples as they become available. Please submit all feedback to support@nintex.com.

To download the latest version of the Nintex Reporting 2008 software development kit and supporting resources please see http://connect.nintex.com/files/folders/nrsdk/default.aspx

COMPONENTS

Nintex Reporting 2008 comprises several important components:

1. Collectors
2. The Data Warehouse
3. The Data Management Service
4. The Report Cache
5. SharePoint Web Parts



Collectors

A collector is a process which monitors a system and gathers data into a central repository, against which reports are run.

Nintex Reporting 2008 ships with 2 Collectors.

The first is the SharePoint collector. This collector crawls your SharePoint environment, gathering information about the state of your environment (eg the number of Sites, Lists, Documents, Content Databases). It also processes the SharePoint audit log to collect information usage information (eg which documents are being update, which sites are being visited).

The second type of collector we have is a performance collector. This collector gathers information from performance monitor counters such as CPU, memory usage, available disk space. It can be configured to collect information from any performance counter available in perf mon. Using this information we are able to track the performance of key services and processes in the SharePoint environment such as the memory usage of the SharePoint timer service.

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The Data Warehouse

Information from Collectors is stored in a Sql Server data warehouse. This can reside on your existing SharePoint infrastructure or be provisioned on a separate server. By storing information in a separate Sql Server database, the performance of SharePoint is not impacted when reports are run.

The Data Management Service

A data management service manages the scheduling or reports and provides report data to SharePoint Web Parts. When a report schedule runs, the data management service stores the results in the Report Cache.

The Report Cache

The Report Cache is a Sql Server database which stores the results of previously scheduled reports. This allows users to view previous execution of a report (eg users can view the "current" report or a report from last week or last month) providing historical information.

The Report Cache also stores configuration information, such as the display settings for each report, report subscription information, and setup and licensing information.

SharePoint Web Parts

Nintex Reporting ships with several SharePoint Web Parts which allow report data to be displayed:

- Nintex Chart Viewer - displays pie, line, column and bar charts using Silverlight technology.
- Nintex Report Actions - displays actions such as the ability to subscribe, run a new report or export as PDF.
- Nintex Report Viewer - displays report data in a tabular format.
- Nintex Schedule Selector - displays information about the report and allows previous runs to be selected.
- Nintex Summary Viewer - displays summary statistics reports.

WHAT'S NEW?

- The Import Report XML Schema was added in Nintex Reporting 2008 v1.1

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SUPPORT RESOURCES

This section lists a range of software required to successfully develop for and extend Nintex Reporting.

Nintex Connect

The Nintex Connect site provides a forum for discussing the use and development of Nintex Reporting 2008, along with additional examples and downloads.

Download: http://connect.nintex.com

SQL Server 2000 (or above)

SQL Server 2005 Management Studio *or* SQL Server 2000 Query Analyzer are required to develop reports.

Download: http://www.microsoft.com/sql

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HOW TOS

This section contains a number of examples demonstrating how to extend Nintex Reporting 2008 to meet custom business requirements.

This section contains the following examples

1. Create a new report
2. Create a new schedule
3. Create a new report page

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HOW TO: CREATE A NEW REPORT

SKILL LEVEL: INTERMEDIATE

OVERVIEW

This example will demonstrate the creation of a new Nintex Reporting 2008 report. The report creation process requires new database objects and records to be created.

The report in this example will use a Pie Chart to display Content Types Usage, showing each Content Type and the number of List Items using each Content Type. The report will also include Site and Web parameters to enable it to be targeted to a specific Team Site.

To create a new report, database objects are required in both the Data Warehouse database and Cache and Configuration database. The stored procedure which returns report data must be created in the Data Warehouse, whereas the report metadata and the cache table used to hold previously run snapshots of report schedules must be created in the Cache and Configuration database. The report metadata indicates which stored procedure to run when executing the report and also the cache table in which to stored snapshots. See the Which Database section for clarification.

REQUIREMENTS

This example requires the following technologies and/or applications:

- Windows SharePoint Services 3.0
- Nintex Reporting 2008
- SQL Server 2005 Management Studio *or* SQL Server 2000 Query Analyzer

SUMMARY

This is a quick summary of the steps and procedures required to complete this example.

1. Create a stored procedure to return the data
2. Create a new table to store cached data when a schedule is created for the new report
3. Create the Report record
4. Create the Report Parameter records
5. Create the ReportDefinitionXML to specify how the report data and chart will be displayed
6. View the report using Nintex Reporting 2008
7. Create a new Nintex Reporting 2008 Report Page in SharePoint to display the new report data and chart

WHICH DATABASE?

Below is a listing of data tasks and the database in which the task should be executed.

Tasks	Database
Create a stored procedure to return data	Data Warehouse
Create a table to store cache data	Cache and Configuration
Create a Report record	Cache and Configuration
Create Report Parameter records	Cache and Configuration
Create the ReportDefinitionXML	Cache and Configuration

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STEPS AND PROCEDURES

Step 1 – Create a stored procedure to return the data

1. Below is the stored procedure required to return the data. Copy and paste this query into Query Analyzer (for SQL Server 2000) or SQL Server Management Studio (for SQL Server 2005). Ensure you have connect to the Nintex Reporting 2008 Data Warehouse database.

```
CREATE PROCEDURE [dbo].[RptContentTypes]
    @FarmID                     uniqueidentifier = null,
    @SiteID                     uniqueidentifier = null,
    @WebID                      uniqueidentifier = null,
    @ExcludeDeletedListItems    bit = 0,
    @PageLowerBound             nvarchar(8) = null,
    @PageHigherBound            nvarchar(8) = null,
    @TotalRowCount              int = null output,
    @SortCol                    nvarchar(255) = null,
    @OrderExp                   nvarchar(4) = null,
    @RowCountOnly               bit = 0
as
/*
Description:     Returns the number of ListItems used by each Content Type

Testing:
declare @count int
exec dbo.RptContentTypes null, null, null, 1, 1, 10, @count output, 'ListItems', 'Desc', 1
select @count records
*/
begin
    set nocount on
    -- prepare paging
    declare       @PageSize     nvarchar(8),
                  @OrderExpSwap nvarchar(4),
                  @sql          varchar(8000)

    if (@PageLowerBound is null)
          set     @PageLowerBound = '1'
    if (@PageHigherBound is null)
          select @PageHigherBound = dbo.fnGetDefaultPageHigherBound()
    if (@SortCol is null)
          set     @SortCol = ' ListItems'
    if (@OrderExp is null)
          set     @OrderExp = 'Desc'

    set @PageSize = cast((cast(@PageHigherBound as bigint) - cast(@PageLowerBound as
bigint) + 1) as nvarchar(8))

    if (lower(@OrderExp) = 'asc')
          set     @OrderExpSwap = 'desc'
    else
          set     @OrderExpSwap = 'asc'

    declare       @SortExpression     nvarchar(1000),
                  @SortExpressionSwap nvarchar(1000)

    set           @SortExpression = dbo.fnGetSortOrderExpression(@SortCol, @OrderExp)
    set           @SortExpressionSwap = dbo.fnGetSortOrderExpression(@SortCol,
@OrderExpSwap)
```


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```
    -- prepare helper
    declare       @SPSiteId     bigint,
                  @SPWebId      bigint

    set     @SPSiteId = dbo.fnGetSPSiteId(@FarmId, @SiteId)
    set     @SPWebId = dbo.fnGetSPWebId(@SPSiteId, @WebId)

    -- get results
    if (@RowCountOnly = 1)
    begin
           select @TotalRowCount = count(distinct ct.[Name])
           from   dbo.DimSPListItems li
                  inner join dbo.LookupContentTypes ct
                         on ct.LookupValue = li.ContentTypeLookup
                  inner join dbo.DimSPLists l
                         on l.ObjectId = li.ParentSPListId
                  inner join dbo.DimSPWebs w
                         on w.ObjectId = l.ParentSPWebID
                  and (w.ObjectId = @SPWebId or @SPWebId is null)
                  and (w.ParentSiteId = @SPSiteId or @SPSiteId is null)
           where  (@ExcludeDeletedListItems = 0 or li.Deleted = 0)
    end
    else
    begin
        set @sql = '
           select *
           from   (
                  select top ' + @PageSize + ' *
                  from   (
                  select top ' + @PageHigherBound + '
                  cast(' + isnull('''' + cast(@SiteId as nvarchar(50)) + '''', 'null') + '
as uniqueidentifier) SiteId,
                  cast(' + isnull('''' + cast(@WebId as nvarchar(50)) + '''', 'null') + '
as uniqueidentifier) WebId,
                  ' + cast(@ExcludeDeletedListItems as nvarchar) + '
ExcludeDeletedListItems,
                  ct.[Name] ContentType,
                  count_big(li.ObjectID) ListItems
                  from   dbo.DimSPListItems li
                         inner join dbo.LookupContentTypes ct
                                on ct.LookupValue = li.ContentTypeLookup
                         inner join dbo.DimSPLists l
                                on l.ObjectId = li.ParentSPListId
                         inner join dbo.DimSPWebs w
                                on w.ObjectId = l.ParentSPWebID
                  where  (' + cast(@ExcludeDeletedListItems as nvarchar) + '=0 or
li.Deleted=0)
                  ' + isnull(' and w.ParentSiteId = ' + cast(@SPSiteId as nvarchar), '') +
'
                  ' + isnull(' and l.ParentSPWebId = ' + cast(@SPWebId as nvarchar), '') +
'
                  group by ct.[Name]
                  order by ' + @SortExpression + '
                  ) as res1
           order by ' + @SortExpressionSwap + '
           ) as res2
           order by ' + @SortExpression
    end
    exec (@sql)
```


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```
end
```

Important information about Nintex Reporting 2008 stored procedures

1. Certain parameters **must** be included or an exception will occur when attempting to run the report. See the table below for required parameters.
2. The stored procedure **must** return the number of rows if parameter @RowCountOnly=1, or else it must return a recordset if parameter @RowCountOnly=0. The number of rows must be stored in an output parameter called @TotalRowCount.
3. The stored procedure should implement sorting and paging; this can be done using the method above, or using temporary tables, for example.
4. It is recommended that the method used above to set sort expressions and get SiteId and WebId be used, as this will provide a consistent experience for all custom reports.
5. If the report is to be targeted to Site or Team Site, it is recommended that a FarmId parameter to supplied. This will provide a consistent experience when Nintex Reporting supports multiple Farms.
6. If drilldown functionality is required, all report-specific parameters (ie, those not included in the table below) should be included in the final recordset to enable the same filtering to occur on subsequent reports.

Required Parameters for Nintex Reporting 2008 stored procedures

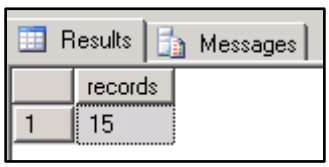
Parameter Name	Datatype	Purpose
@PageLowerBound	Nvarchar(8)	Indicates the first record for the current page
@PageHigherBound	Nvarchar(8)	Indicates the last record for the current page
@TotalRowCount	Int (Output parameter)	Holds the total number of rows
@SortCol	Nvarchar(255)	The name of the column on which to sort
@OrderExp	Nvarchar(4)	The sort direction (Desc or Asc)
@RowCountOnly	Bit	Whether to return the data or the number of rows

Step 2 – Create a new table to store cached data when a schedule is created for the new report

1. After the stored procedure has been created in Step 1, run it using the Testing section.

   Highlight the following code and execute it in Query Analyzer (for SQL Server 2000) or SQL Server Management Studio (for SQL Server 2005). Ensure you have connected to the Nintex Reporting 2008 Data Warehouse database.

```
declare @count int
exec dbo.RptContentTypes null, null, null, 1, 1, 20, @count output, 'ListItems', 'Desc', 1
select @count records
```



   This will return the number of records (as @RowCountOnly was set to 1). Now run the following code to return to recordset (here @RowCountOnly is set to 0)

```
exec dbo.RptContentTypes null, null, null, 1, 1, 20, @count output, 'ListItems', 'Desc', 0
```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Results | Messages

	SiteId	WebId	ExcludeDeletedListItems	ContentType	ListItems
1	NULL	NULL	1	Workflow History	99
2	NULL	NULL	1	Reports Page	74
3	NULL	NULL	1	Folder	33
4	NULL	NULL	1	User Workflow Document	33
5	NULL	NULL	1	Workflow	33
6	NULL	NULL	1	Workflow Template	21
7	NULL	NULL	1	Item	19
8	NULL	NULL	1	UNSPECIFIED	13
9	NULL	NULL	1	Picture	10
10	NULL	NULL	1	SharePointGroup	7
11	NULL	NULL	1	Master Page	6
12	NULL	NULL	1	Announcement	6
13	NULL	NULL	1	Person	4
14	NULL	NULL	1	Document	3
15	NULL	NULL	1	Workflow Snippet	1

Confirm that the number of records returned matches the output from the first statement.
Remember that the @PageLowerBound and @PageHigherBound may need to be changed to ensure all records are returned. Note that these parameters are 1-based, so setting @PageLowerBound to 1 will return the first record.

The cache table schema must match this recordset exactly. Note in the stored procedure above, fields which are uniqueidentifiers (SiteId, WebId, for example), must be re-cast back to uniqueidentifiers if cast as an nvarchar and appended to a string. Field names are case sensitive. Note that if a @SiteId and @WebId are specified, they will be returned in the recordset. You will need to specify valid SiteId and WebId Guids. Check the Nintex Reporting 2008 Data Warehouse tables dbo.DimSPSites and dbo.DimSPWebs for these values.

```
exec dbo.RptContentTypes null, 'E1A763A2-19F1-4C38-86D6-54611A4CD4F2', 'AB0B7E81-75C6-4621-A8C5-B382CC82885E', 1, 1, 20, @count output, 'ListItems', 'Desc', 0
```

Results | Messages

	SiteId	WebId	ExcludeDeletedListItems	ContentType	ListItems
1	E1A763A2-19F1-4C38-86D6-54611A4CD4F2	AB0B7E81-75C6-4621-A8C5-B382CC82885E	1	Picture	8
2	E1A763A2-19F1-4C38-86D6-54611A4CD4F2	AB0B7E81-75C6-4621-A8C5-B382CC82885E	1	Item	4
3	E1A763A2-19F1-4C38-86D6-54611A4CD4F2	AB0B7E81-75C6-4621-A8C5-B382CC82885E	1	Announcement	1
4	E1A763A2-19F1-4C38-86D6-54611A4CD4F2	AB0B7E81-75C6-4621-A8C5-B382CC82885E	1	Master Page	1

Below is the create table script for the cache table. Note that cache tables requires an identity column called ResultId. This is used by aid in sorting. Cache tables also require a column called ReportExecutionInstanceId, which is a foreign key constraint to dbo.ReportExecutions.

Note that the ContentType field uses values from the dbo.LookupContentTypes table. The Name field has a datatype of nvarchar(256). Therefore, we must use the same datatype for the cache table.

The following script creates the cache table for this report. It also creates a foreign key constraint for the ReportExecutionInstanceId field.

Run the following script in Query Analyzer (for SQL Server 2000) or SQL Server Management Studio (for SQL Server 2005). Ensure you can connected to the Nintex Reporting 2008 Cache and Configuration database.

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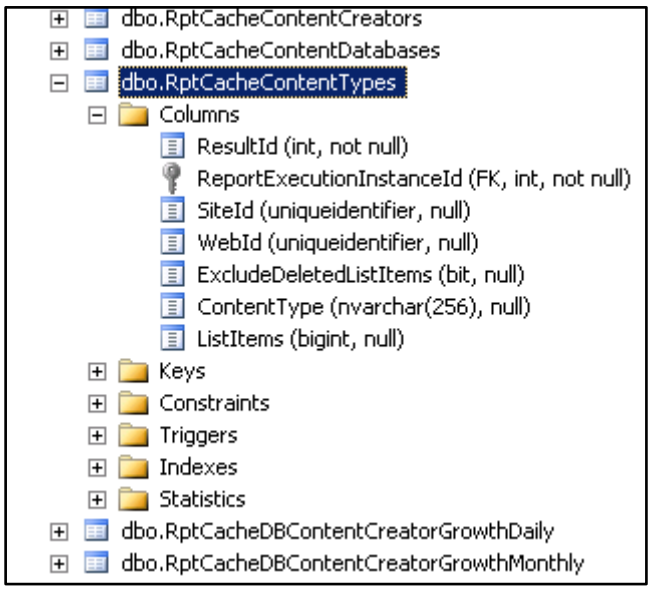
```
CREATE TABLE [dbo].[RptCacheContentTypes](
	[ResultId] [int] IDENTITY(1,1) NOT NULL,
	[ReportExecutionInstanceId] [int] NOT NULL,
	[SiteId] [uniqueidentifier] NULL,
	[WebId] [uniqueidentifier] NULL,
	[ExcludeDeletedListItems] [int] NULL,
	[ContentType] [nvarchar](256) NULL,
	[ListItems] [bigint] NULL
) ON [PRIMARY]

GO
ALTER TABLE [dbo].[RptCacheContentTypes] WITH NOCHECK
	ADD CONSTRAINT [FK_RptCacheContentTypes_ReportExecutions] FOREIGN
KEY([ReportExecutionInstanceId])
REFERENCES [dbo].[ReportExecutions] ([ReportExecutionInstanceID])
GO
ALTER TABLE [dbo].[RptCacheContentTypes] CHECK CONSTRAINT
[FK_RptCacheContentTypes_ReportExecutions]
```

2. Expand the Tables folder to ensure the table has been created successfully.



Step 3 – Create a Report record

The Report record contains metadata for the report, including the report name, category (Documents, User, etc), the name of the cache table and the name of the stored procedure to execute.

Highlight the following code and execute it in Query Analyzer (for SQL Server 2000) or SQL Server Management Studio (for SQL Server 2005). Ensure you have connected to the Nintex Reporting 2008 Cache and Configuration database.

```
INSERT dbo.Reports (ReportGuid, ReportName, TableName, ReportRunnerStoredProcedure,
	ReportRunTimeOut, ReportCleanUpStoredProcedure, ReportDefinitionXML,
	ReportCategoryID, ReportIconURL, [Description], SupportsPaging, DrilldownAccessOnly,
	AllowDrilldown, DrilldownReportId, UserAccessible)
VALUES  ('D79D8B15-4179-4097-B09C-25EA75A85AD4', 'Content Types', 'RptCacheContentTypes',
'RptContentTypes',
	0, '', '', 11, '/_layouts/NintexReporting/Images/PieChart30.png',
	'Displays the number of ListItems assigned to each ContentType', 1, 0, 0, -1, 1)
```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Note that the above insert statement specifies the cache table and the stored procedure. We will create the ReportDefinitionXML later, so the statement inserts an empty string. The ReportCategoryID of 11 signifies that the report should appear in the Lists & Discussions section. To specify a different category, use a value in the dbo.ReportCategory table. The ReportCleanUpStoredProcedure field is used to specify a stored procedure to execute after each scheduled run of the report. Generally, this is used to update StartDate/EndDate parameters, and so in this example, it is not required.

Other settings for this report are as follows; the report supports paging, does not support drilling down to another report and is accessible (visible) to the end user.

In this example, we will be displaying the data in a Pie Chart, so we have specified a path to the PieChart30 icon. Below is a list of all valid ReportIconURL paths. If you wish to specify your own icon, it should be 30x30 pixels.

Chart Type	Path
Bar Chart	/_layouts/NintexReporting/Images/BarChart30.png
Data Table	/_layouts/NintexReporting/Images/DataTable30.png
Horizontal Bar Chart	/_layouts/NintexReporting/Images/HorizontalBarChart30.png
Line Chart	/_layouts/NintexReporting/Images/LineChart30.png
Pie Chart	/_layouts/NintexReporting/Images/PieChart30.png

Note that Data Table is used when there is no effective way to represent data in a chart. For example, a list of Files which have been updated by a specific user would be meaningless on a chart. In this case the Data Table icon would be specified. The ReportDefinitionXML would also specify that no chart should be rendered.

Step 4 – Create Report Parameter records

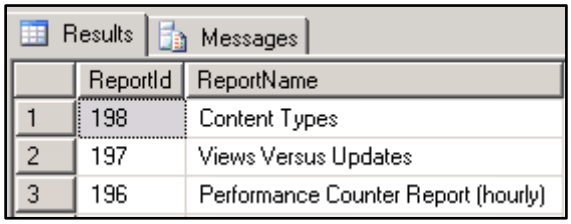
The Report Parameter records contain metadata for the report parameters, including the display name and data type. When the user attempts to run a report using Run Now functionality, report parameter information is read from the dbo.ReportParams table. This ensures that the user is prompted for all required parameters and can only enter a valid value for the parameter's data type. For example, for a parameter with a display type of "Site", a Site Picker is displayed, and for a parameter with a display type of "Boolean", a checkbox is displayed.

Highlight the following code and execute it in Query Analyzer (for SQL Server 2000) or SQL Server Management Studio (for SQL Server 2005). Ensure you have connected to the Nintex Reporting 2008 Cache and Configuration database.

1. Run the following script to determine the ReportId for the Report record created in Step 1:

```
select ReportId, ReportName from dbo.Reports order by ReportId desc
```

This indicates that 198 is the ReportId:



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2. Run the following script to insert the Report Parameter records:

```
INSERT dbo.ReportParams (ReportId, ParamName, ParamDBType, ParamDisplayTypeId, DisplayName,
            [Description], AllowNull, Sliding, DisplayOrder, Hidden, DefaultValue)
VALUES  (198, 'SiteID', 16, 4, 'Site Collection',
            'The Site Collection on which to report', 1, 0, 0, 0, null)

INSERT dbo.ReportParams (ReportId, ParamName, ParamDBType, ParamDisplayTypeId, DisplayName,
            [Description], AllowNull, Sliding, DisplayOrder, Hidden, DefaultValue)
VALUES  (198, 'WebID', 16, 5, 'Team Site',
            'The Team Site on which to report', 1, 0, 1, 0, null)

INSERT dbo.ReportParams (ReportId, ParamName, ParamDBType, ParamDisplayTypeId, DisplayName,
            [Description], AllowNull, Sliding, DisplayOrder, Hidden, DefaultValue)
VALUES  (198, 'ExcludeDeletedListItems', 3, 10, 'Exclude Deleted ListItems',
      'Whether or not to exclude deleted listitems', 0, 0, 2, 0, null)
```

Note that all records are linked to the ReportId of 198.

The dbo.DBType table contains all valid values for the ParamDBType field. In the example above, 16 indicates a string and 3 indicates a boolean value.

The dbo.ParamDisplayTypes table contains all valid values for the ParamDisplayTypeId field. In the example above, 4 indicates a Site, 5 indicates a Web and 10 indicates a Boolean value.

In the example above, we are allowing both the Site and Web to be null (which allows the user to specify "All Site Collections"). We are not allowing the 3rd parameter to be null - the user must use a checkbox to specify that deleted ListItems are to be excluded from the results.

The DisplayOrder field indicates the order in which the parameters will be displayed when the user attempts to run the report.

The Sliding field is used for DateTime parameters, so is not relevant to this example.

Note that if a parameter is set to be Hidden, it must be AllowNull enabled (as well as a default for the stored procedure parameter). Alternatively, it must have a default value entered.

Step 5 – Create the ReportDefinitionXML

Highlight the following code and execute it in Query Analyzer (for SQL Server 2000) or SQL Server Management Studio (for SQL Server 2005). Ensure you have connected to the Nintex Reporting 2008 Cache and Configuration database.

Note that we are only updating the new Report by specifying `where reportId = 198`

Run the following code:

```
update dbo.Reports
set reportDefinitionXML = '<?xml version="1.0" encoding="utf-8"?>
<ReportDefinition xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <Title>showNoTitle</Title>
      <AllowCaching>true</AllowCaching>
      <CacheTimeOut>0</CacheTimeOut>
      <PageSize>10</PageSize>
      <AllowSorting>true</AllowSorting>
      <DefaultSortExpression>ListItems</DefaultSortExpression>
      <DefaultSortDirection>D</DefaultSortDirection>
      <ReportColumns>
            <ReportColumn>
```


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```
                <SortExpression>SiteId</SortExpression>
                <Sortable>true</Sortable>
                <Name>SiteId</Name>
                <DisplayName>SiteId</DisplayName>
                <DisplayType>Default</DisplayType>
                <IsTextColumn>false</IsTextColumn>
                <IsValueColumn>false</IsValueColumn>
                <IsHidden>true</IsHidden>
        </ReportColumn>
        <ReportColumn>
                <SortExpression>WebId</SortExpression>
                <Sortable>true</Sortable>
                <Name>WebId</Name>
                <DisplayName>WebId</DisplayName>
                <DisplayType>Default</DisplayType>
                <IsTextColumn>false</IsTextColumn>
                <IsValueColumn>false</IsValueColumn>
                <IsHidden>true</IsHidden>
        </ReportColumn>
        <ReportColumn>
                <SortExpression>ExcludeDeletedListItems</SortExpression>
                <Sortable>true</Sortable>
                <Name>ExcludeDeletedListItems</Name>
                <DisplayName>ExcludeDeletedListItems</DisplayName>
                <DisplayType>Number</DisplayType>
                <IsTextColumn>false</IsTextColumn>
                <IsValueColumn>false</IsValueColumn>
                <IsHidden>true</IsHidden>
        </ReportColumn>
        <ReportColumn>
                <SortExpression>ContentType</SortExpression>
                <Sortable>true</Sortable>
                <Name>ContentType</Name>
                <DisplayName>Content Type</DisplayName>
                <DisplayType>Default</DisplayType>
                <IsTextColumn>true</IsTextColumn>
                <IsValueColumn>false</IsValueColumn>
                <IsHidden>false</IsHidden>
        </ReportColumn>
        <ReportColumn>
                <FormatString>#,##0</FormatString>
                <SortExpression>ListItems</SortExpression>
                <Sortable>true</Sortable>
                <Name>ListItems</Name>
                <DisplayName>List Items</DisplayName>
                <DisplayType>Number</DisplayType>
                <IsTextColumn>false</IsTextColumn>
                <IsValueColumn>true</IsValueColumn>
                <IsHidden>false</IsHidden>
        </ReportColumn>
</ReportColumns>
<ReportParameters />
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        <ChartTitle>showNoTitle</ChartTitle>
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        <X_Axis_name></X_Axis_name>
        <Y_Axis_name></Y_Axis_name>
        <ChartType>PieChart2D</ChartType>
        <ShowLegend>true</ShowLegend>
        <ShowLegendLabel>true</ShowLegendLabel>
        <Width>700</Width>
        <Height>500</Height>
        <ColourMode>Columns</ColourMode>
        <PainterStyle>Solid</PainterStyle>
        <LabelGroupBy>Column</LabelGroupBy>
        <Colours />
        <FillColours />
</ChartVisualParameters>
```


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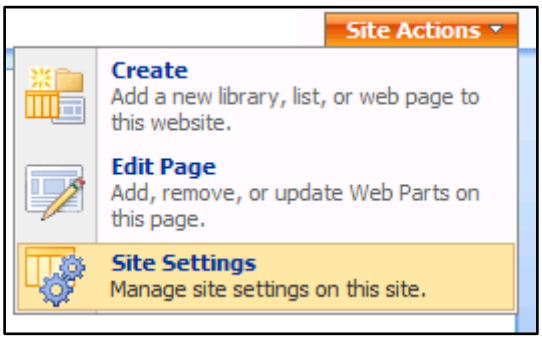
```
</ReportDefinition>' where reportId = 198
```

See the Report Definition Schema section of this document for a full explanation of this schema.

Step 6 – View the report

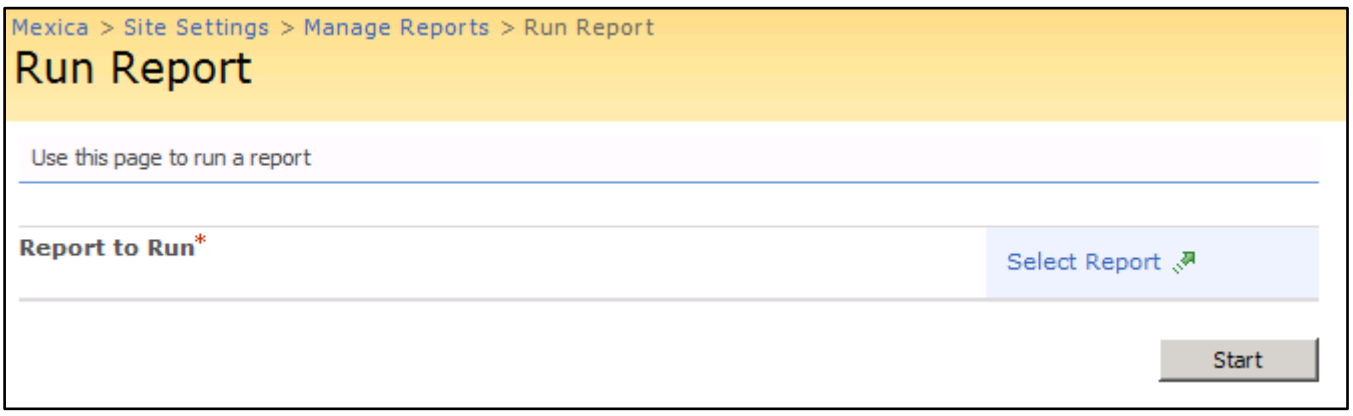
Open a browser and navigate to a team site on which Nintex Reporting 2008 is available.

Go the Site Settings on the top right-hand corner of the portal homepage (Site Actions -> Site Settings)



In the Nintex Reporting section, click on the first link, **Run new report**

The **Run new report** link will take you to the Run Report page



Click on Select Report

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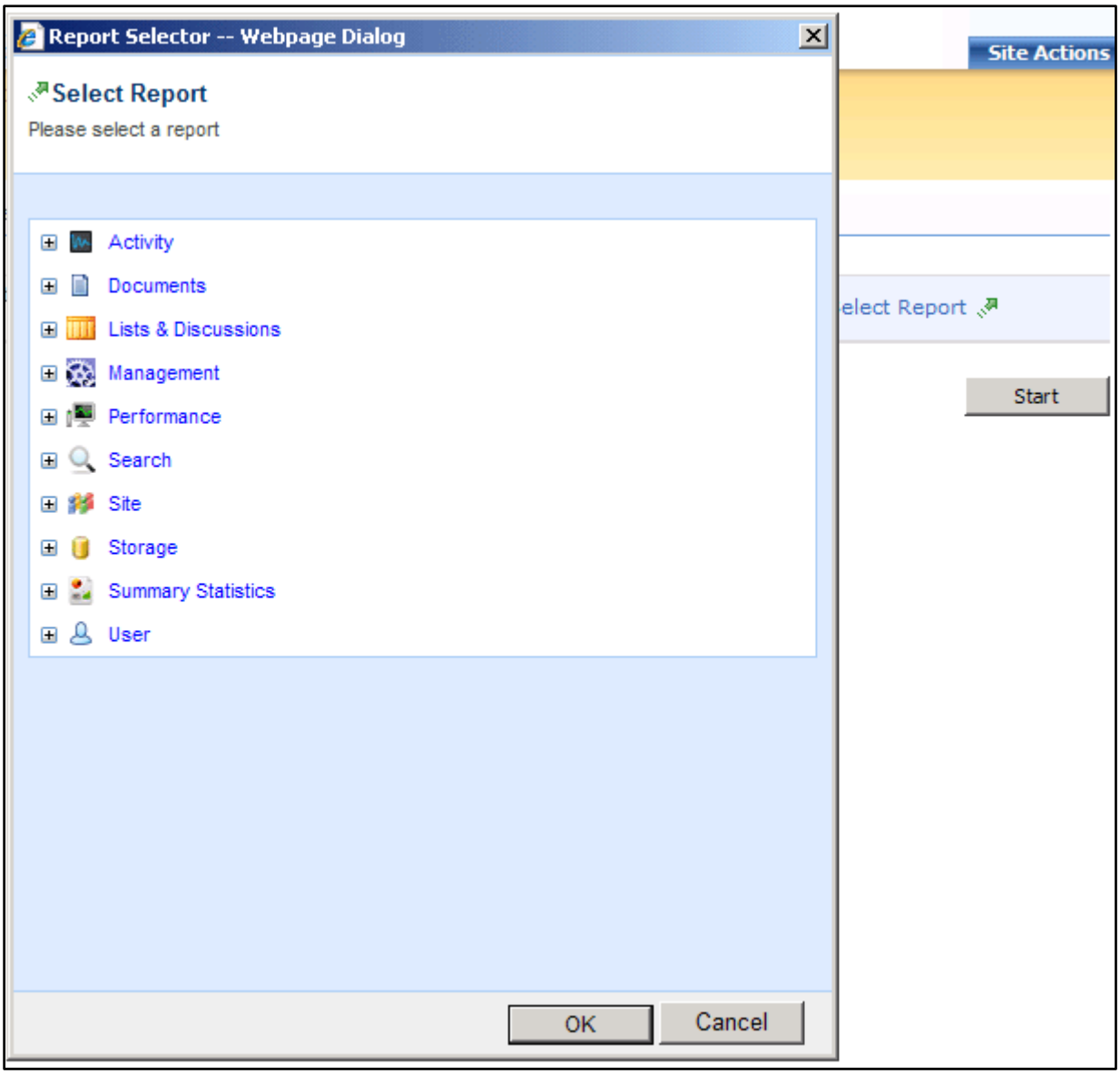

Expand the Lists & Discussions category. Content Types should be listed as the first report in the Lists & Discussions category.

Click Content Types, then OK. This will open the Run Report page with a Report Parameters section applicable to this report.

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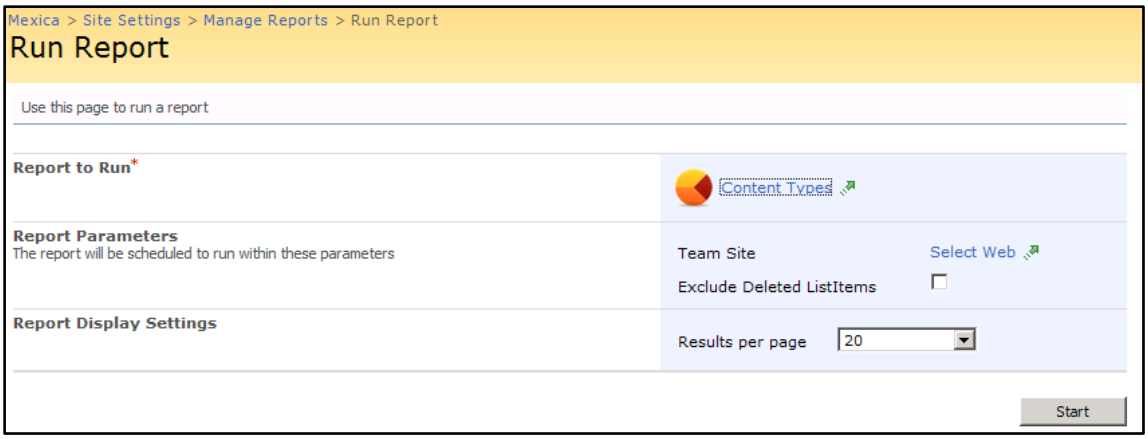
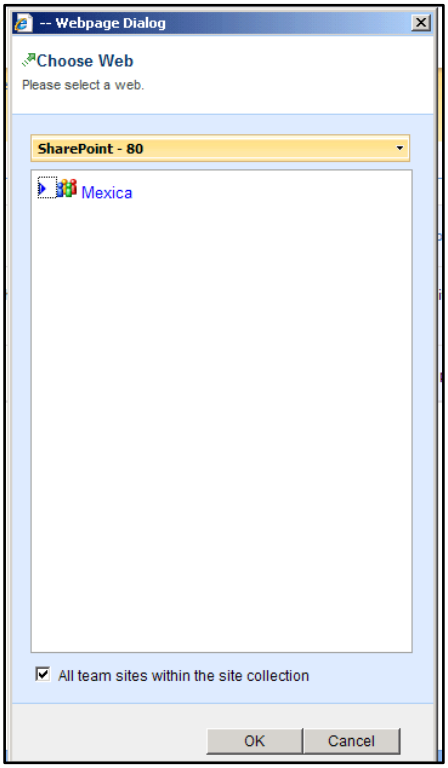


Click on Select Web to open the Site Picker dialog. To run the report against all Sites Collections and Team Sites, tick the box at the bottom of the dialog - **All team sites within the site collection**. Alternatively, expand the Site Collection and select a Team Site.



Click OK. Note that the **Select Web** link now says **All Team Sites**.

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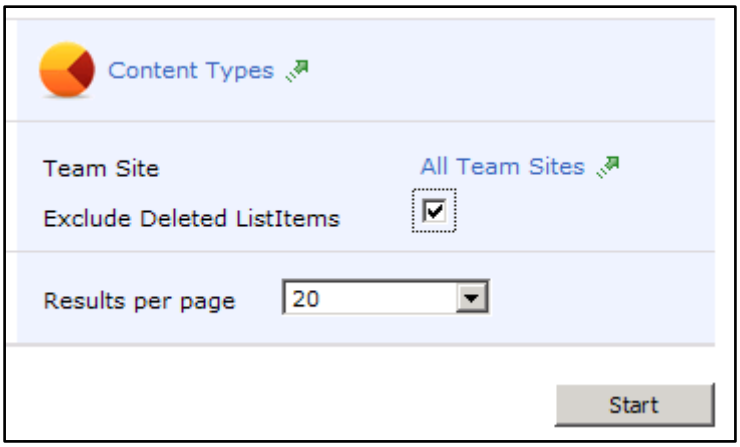
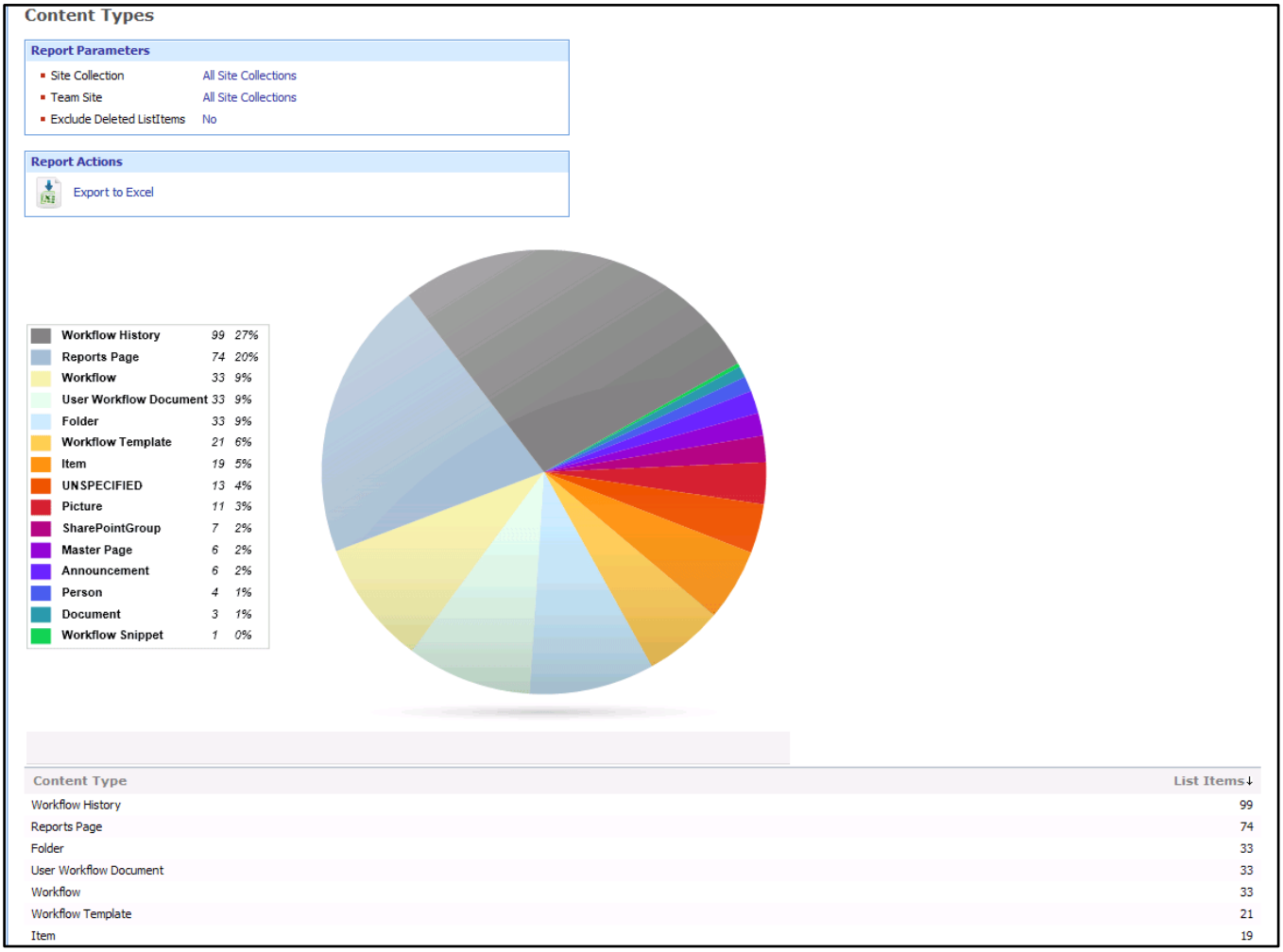


To exclude deleted ListItems, tick the box. Press Start to run the report.



Note that the results are sorted by ListItems descending. Click on the column headings to change the sort order.

Step 7 – Create a new Nintex Reporting 2008 Report Page in SharePoint

See How To "Creating a Report Page".

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HOW TO: CREATE A NEW REPORT SCHEDULE

SKILL LEVEL: INTERMEDIATE

OVERVIEW

This example will demonstrate the creation of a new Nintex Reporting 2008 report schedule. The report schedule creation process can be completed via Nintex Reporting 2008 administration pages.

REQUIREMENTS

This example requires the following technologies and/or applications:

- Windows SharePoint Services 3.0
- Nintex Reporting 2008

SUMMARY

This is a quick summary of the steps and procedures required to complete this example.

1. Select a report on which to base the schedule
2. Set schedule parameters, start date, frequency and permissions

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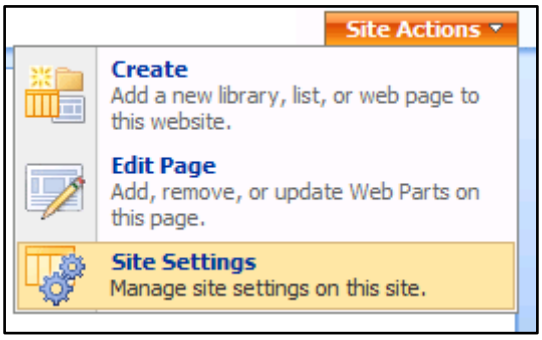
STEPS AND PROCEDURES

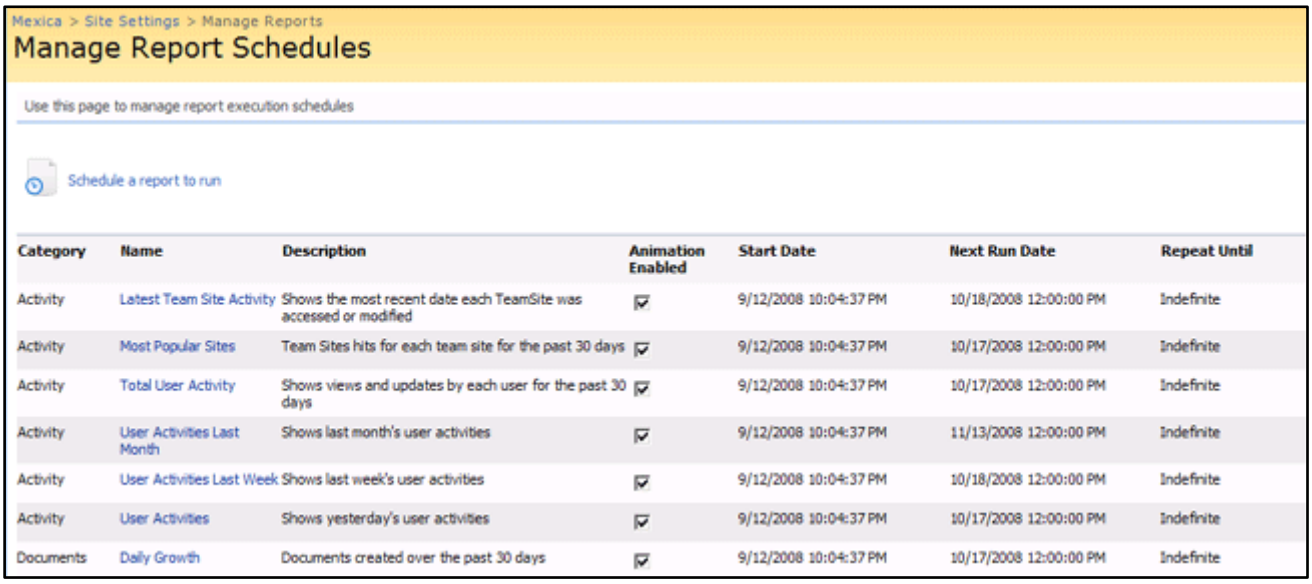
Step 1 – Select a report on which to base the schedule

Select the Site Settings menu from the top right-hand Site Actions menu.



Click on the **Manage Reports** link on the Nintex Reporting section of the Site Settings page.

This opens the Manage Report Schedules page.



Click on the **Schedule a report to run** link at the top of the page. This opens the Create Report Schedule page.

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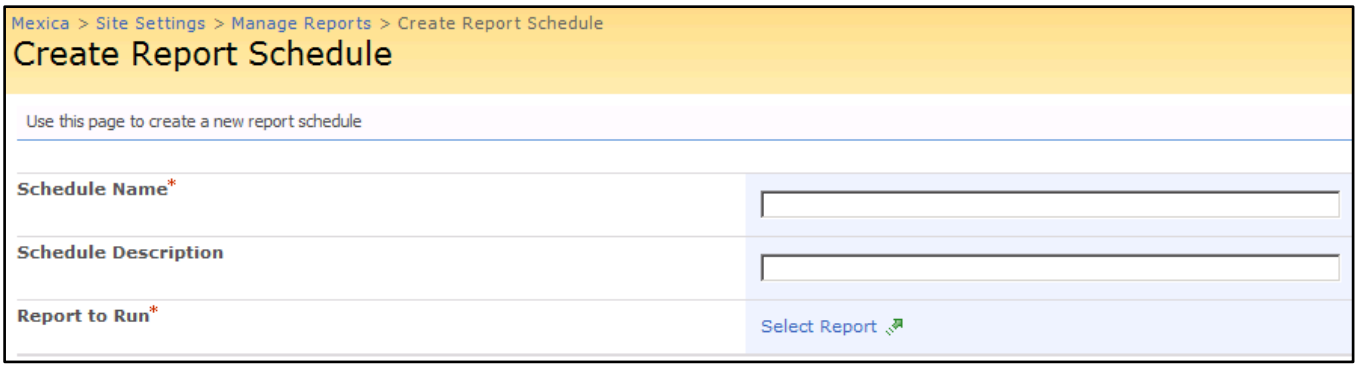
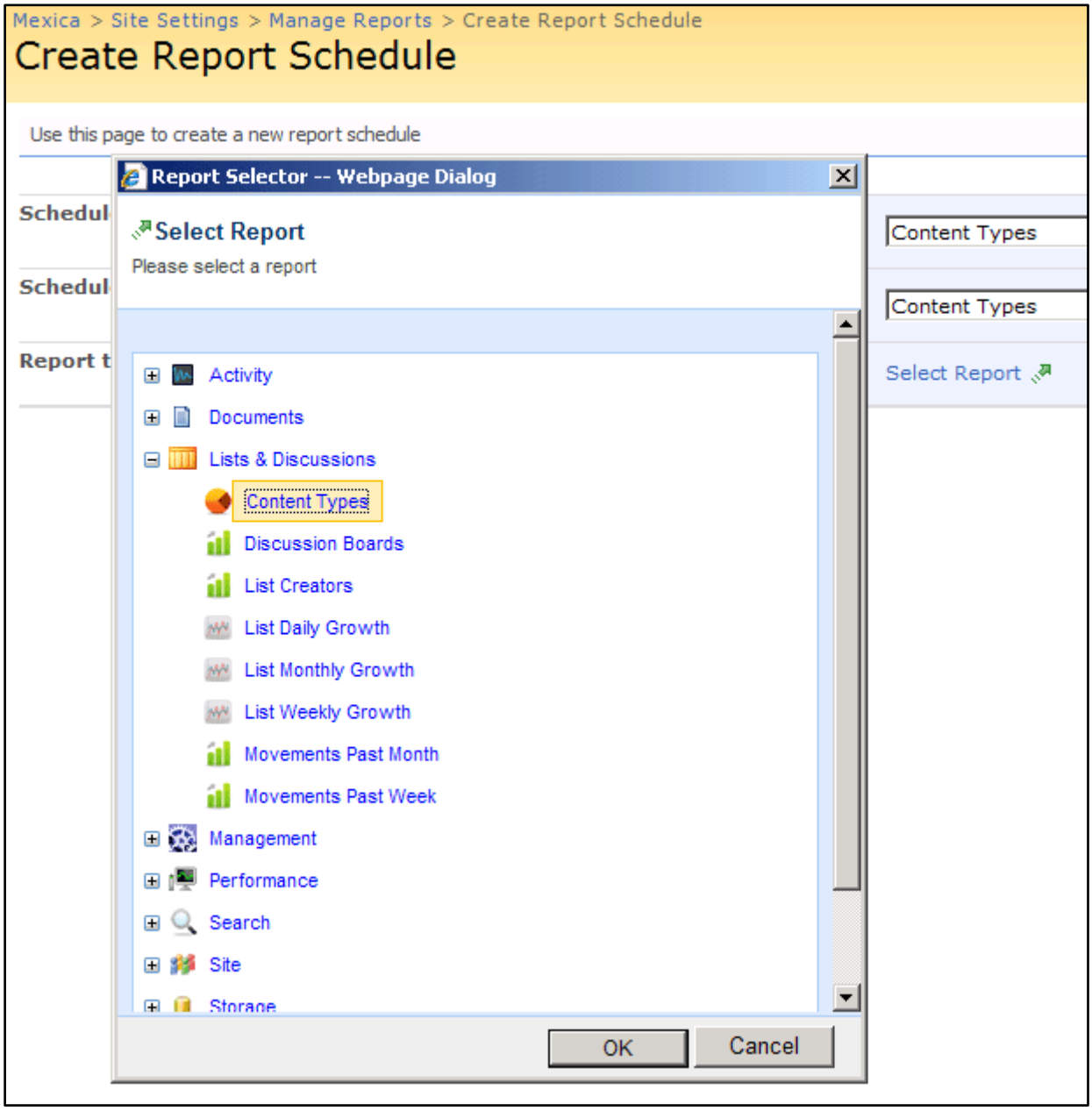


Enter a name and description for the Schedule , and click on the **Select Report** link, select the required report to open the Report Selector page.



Press OK. This will display the required report parameters, the Start Date, Frequency and Permissions sections.

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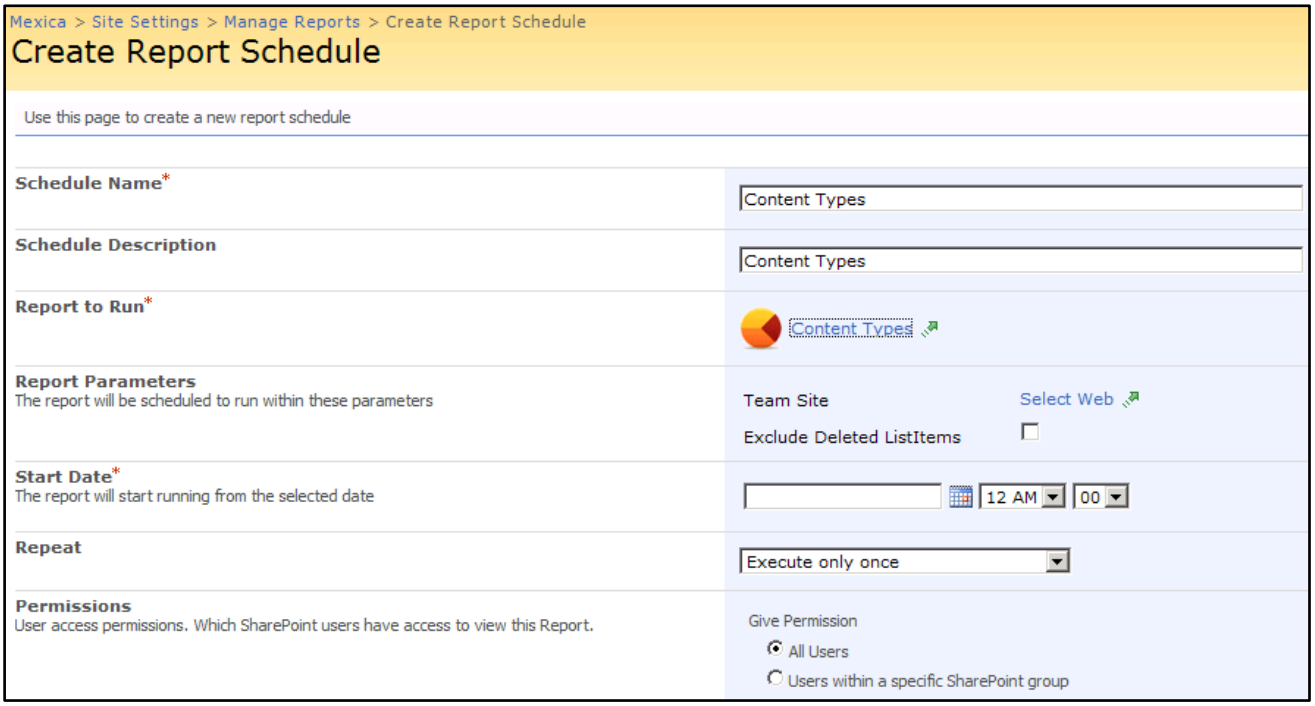
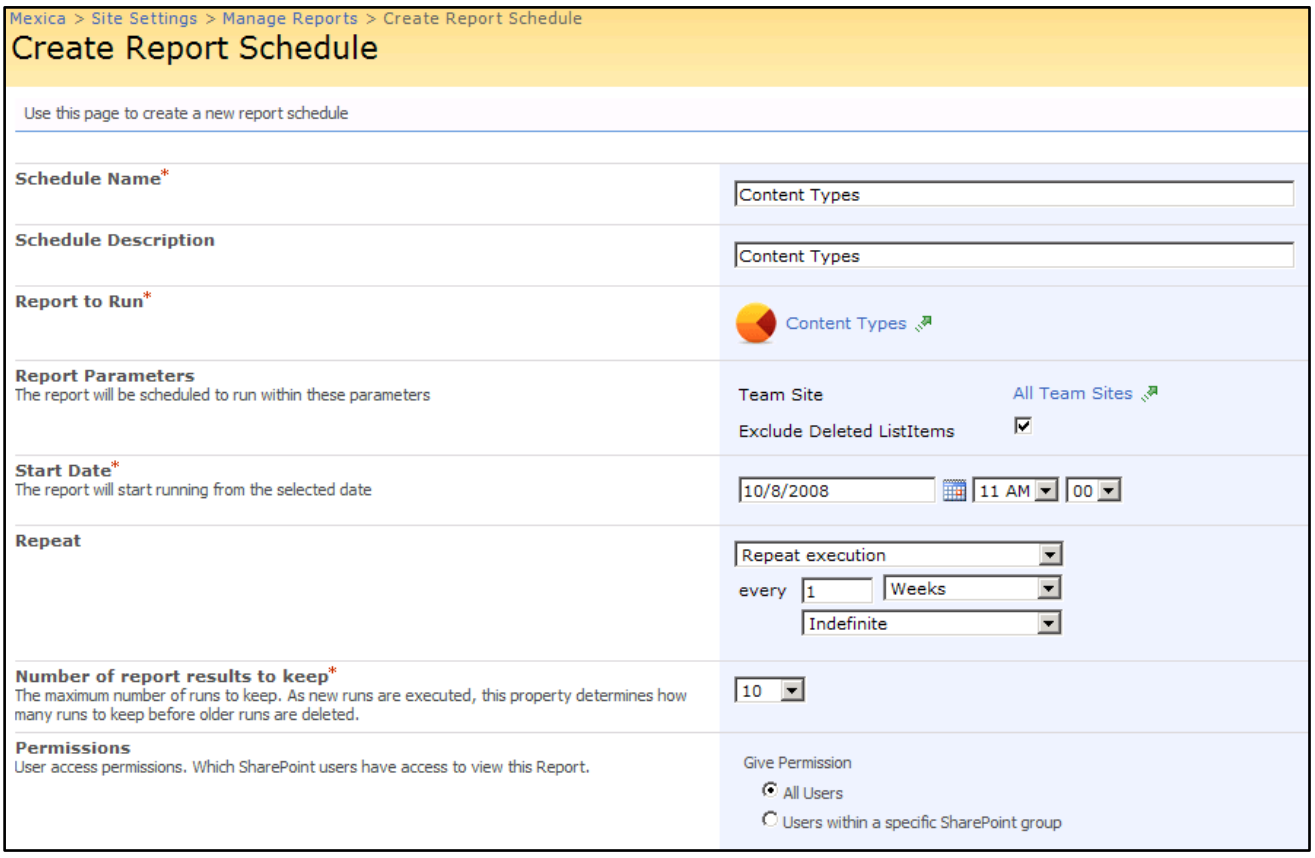
Step 2 – Set schedule parameters, start date, frequency and permissions.



In this example, we want the schedule to start at 11AM on October 8th, and execute each week. We will also specify that only 10 report results are to be saved in the cache tables. This schedule is made available to all users by selecting the "All Users" setting under Permissions.



Press OK. This will take you back to the Manage Report Schedules page. At 11AM, the schedule will run.

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HOW TO: CREATE A NEW REPORT PAGE

SKILL LEVEL: INTERMEDIATE

OVERVIEW

This example will demonstrate the creation of a new Nintex Reporting 2008 Report Page. This page is used to view previous runs of scheduled reports. In this example we will create a report page which displays the Content Types report.

REQUIREMENTS

This example requires the following technologies and/or applications:

- Windows SharePoint Services 3.0
- Nintex Reporting 2008

SUMMARY

This is a quick summary of the steps and procedures required to complete this example.

1. Add a new report page
2. Add the required webparts to the report page
3. Configure the webparts

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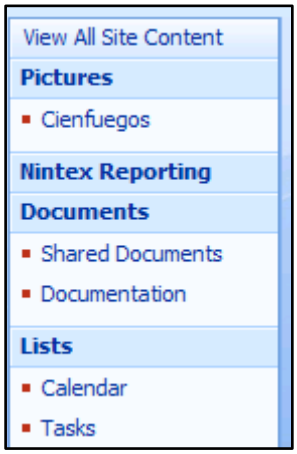
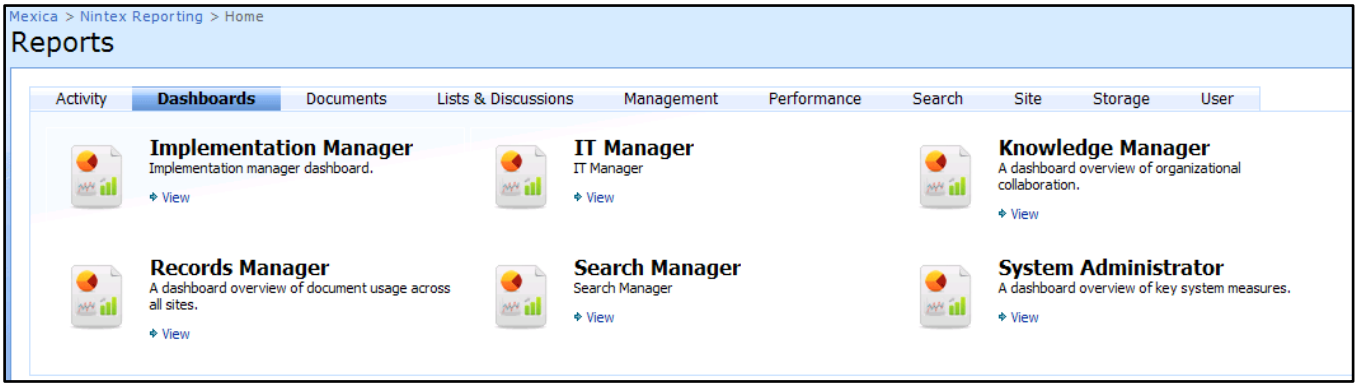
STEPS AND PROCEDURES

Step 1 – Add a new report page

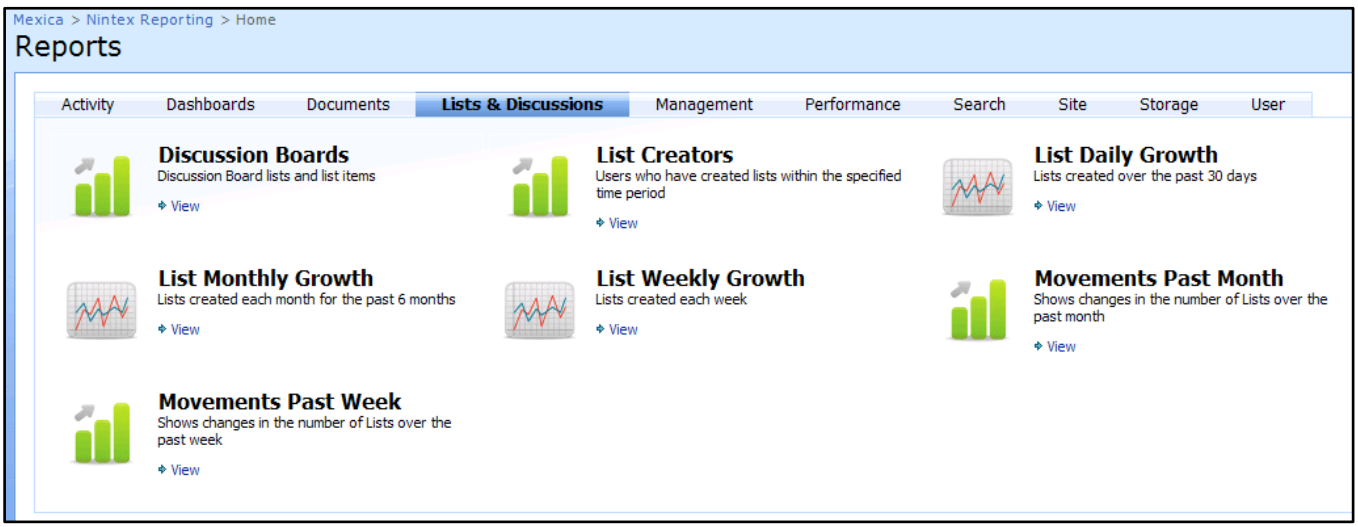
Open a browser and navigate to the SharePoint site on which Nintex Reporting is deployed. Click the Nintex Reporting link on the left-hand menu.



The Nintex Reporting home page will open.



Click on the Lists & Discussions tab. Note that the Content Types report is not yet available on a report page.



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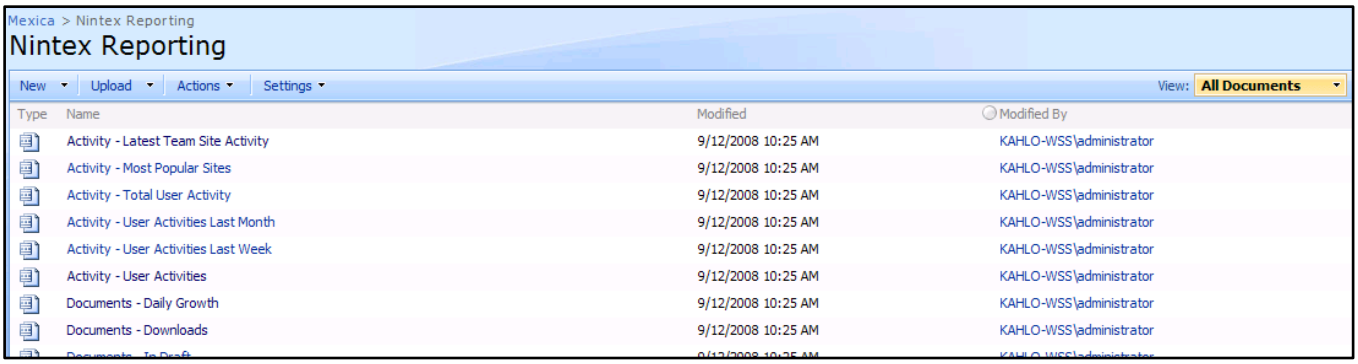
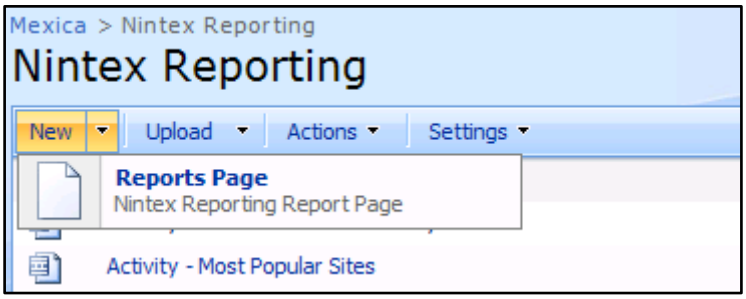
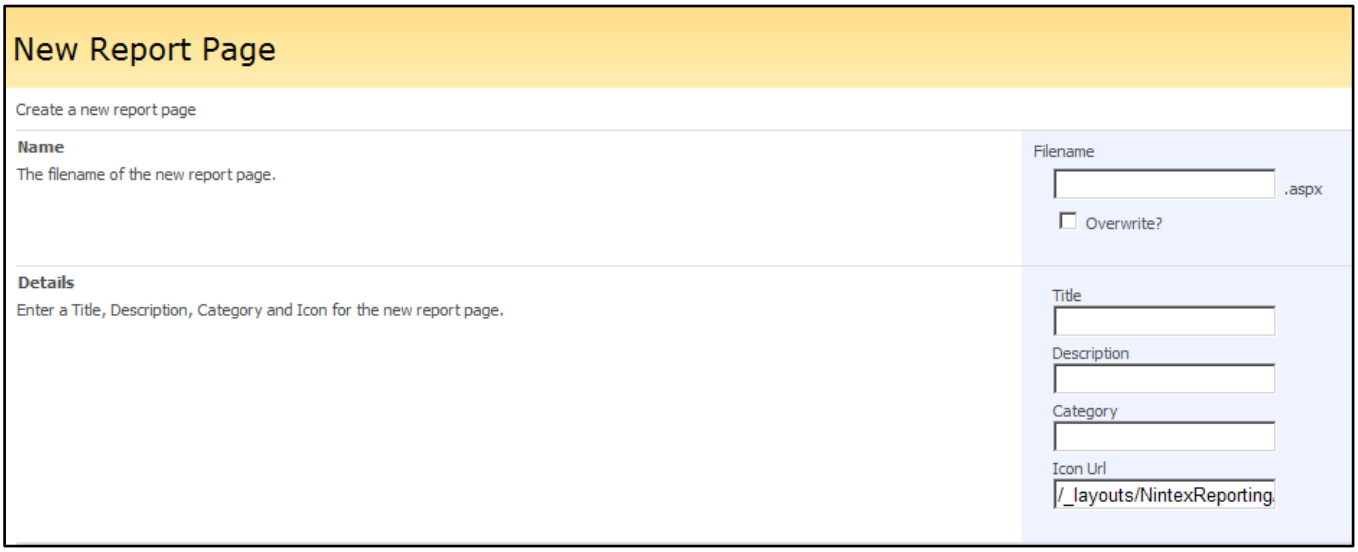
At the top left-hand side of the page, click on the **Nintex Reporting** link in the breadcrumbs heading (Mexica > Nintex Reporting > Home). This opens the Nintex Reporting document library. The document library contains all the web part pages which were provisioned as part of the Nintex Reporting 2008.



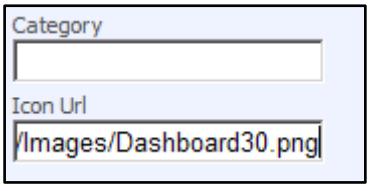
Click on the **New** menu. Then click on **Reports Page**.



The New Report Page will open.



Note that the Icon Url field is pre-populated with Dashboard30.png (/_layouts/NintexReporting/Images/Dashboard30.png)



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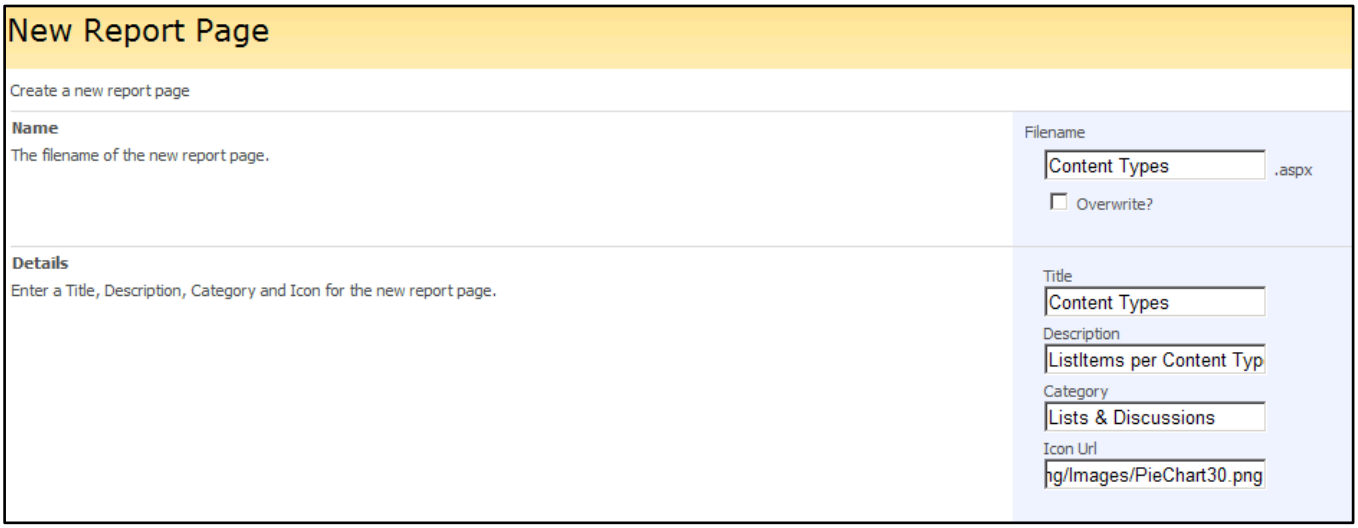
Valid Icon Url values are listed below. Note that these images are shipped with Nintex Reporting 2008. If you wish to use your own icon, it should be 30x30 pixels.

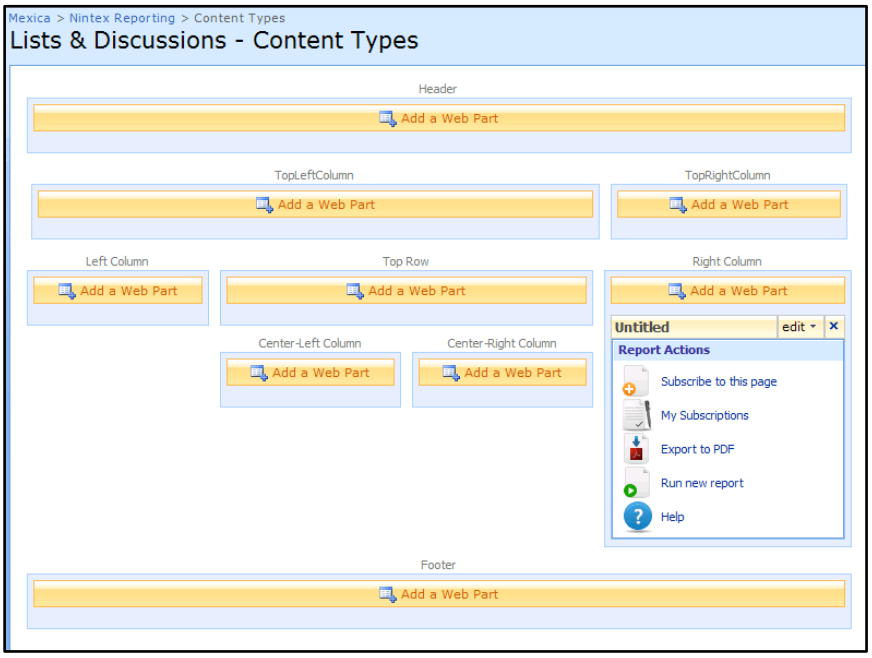
Chart Type	Icon Url Path
Bar Chart	/_layouts/NintexReporting/Images/BarChart30.png
Data Table	/_layouts/NintexReporting/Images/DataTable30.png
Horizontal Bar Chart	/_layouts/NintexReporting/Images/HorizontalBarChart30.png
Line Chart	/_layouts/NintexReporting/Images/LineChart30.png
Pie Chart	/_layouts/NintexReporting/Images/PieChart30.png

Fill in the Filename, Title, Description and Category. Note we have entered the path to for the Pie Chart.



The available categories are: Activity, Dashboards, Documents, Lists & Discussions, Management, Performance, Search, Site, Storage, User. A new category will be created if it does not match one of the available categories.

Press OK. This opens the report page in Edit Mode.



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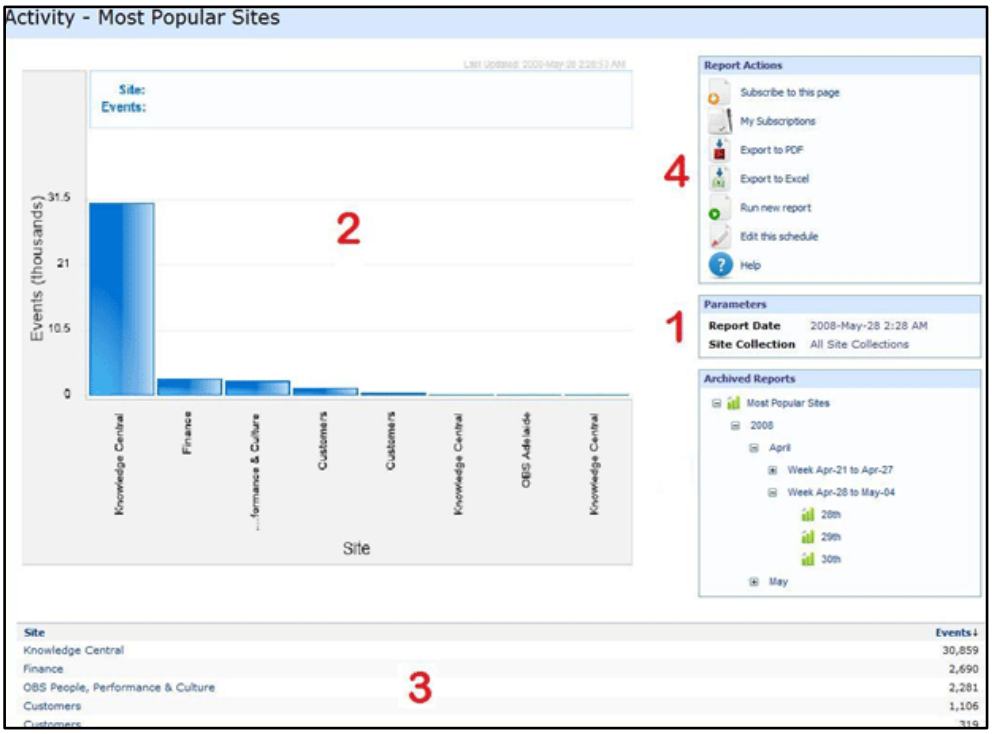
Step 2 – Add the required webparts to the report page

Below is a screenshot displaying webparts on a standard report page.

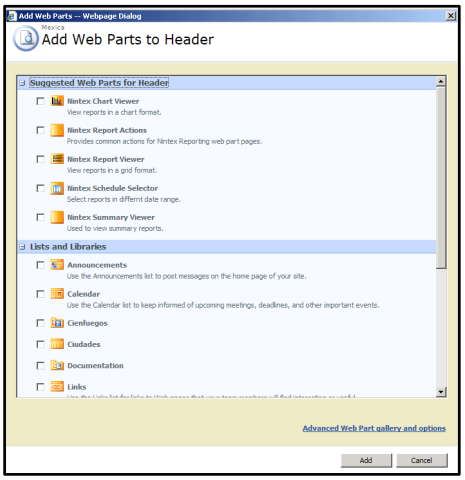


Web parts descriptions for the layout above:

Number	Webpart Name	Purpose
1	Nintex Schedule Selector	Displays parameters used to run the report, and shows previous executions.
2	Nintex Chart Viewer	Displays report data in a Silverlight chart.
3	Nintex Report Viewer	Displays report data in tabular format.
4	Nintex Report Actions	Provides links to various actions (eg export to PDF or Excel, subscriptions, etc)

To complete the report page, we must add a Nintex Schedule Selector, Nintex Chart Viewer and Nintex Report Viewer.

With the page in Edit Mode, click Add a Web Part. This displays the Web Part library dialog.



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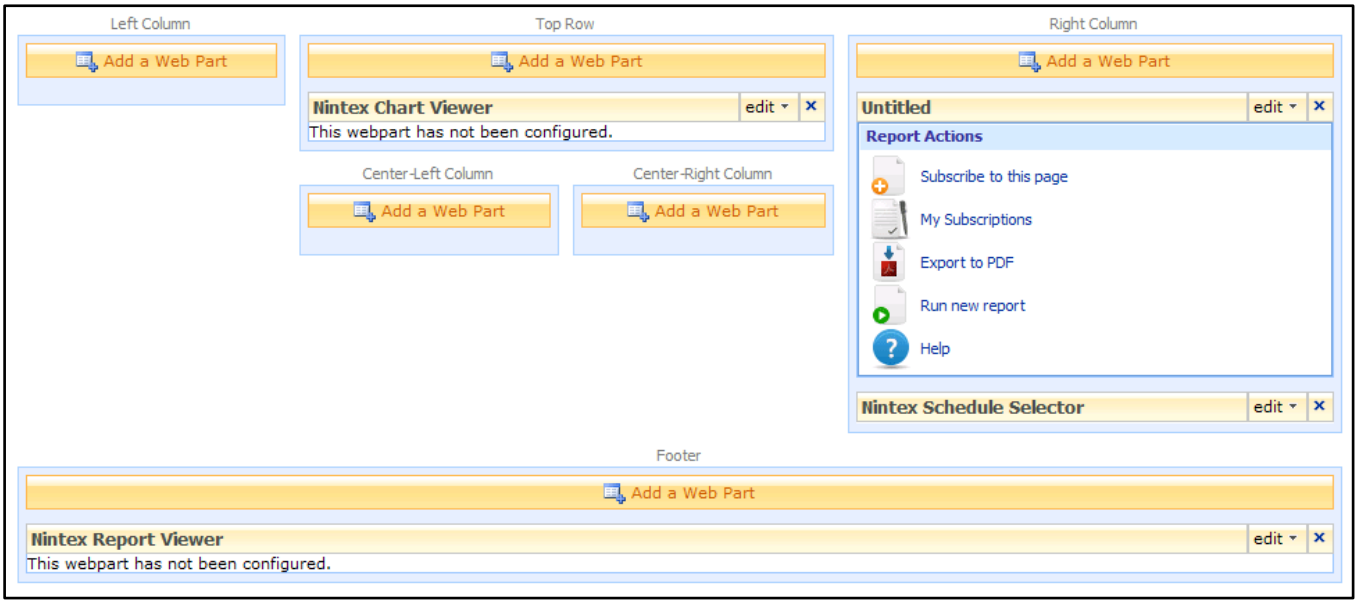
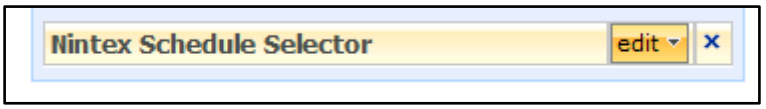
Select Nintex Schedule Selector, and press OK. Click Add a Web Part on another web part, and select the Nintex Chart Viewer. Repeat this process to add the Nintex Report Viewer.

Using the mouse, drag the Nintex Schedule Selector to be below the existing Report Actions Web Part. Position the other web parts as follows:

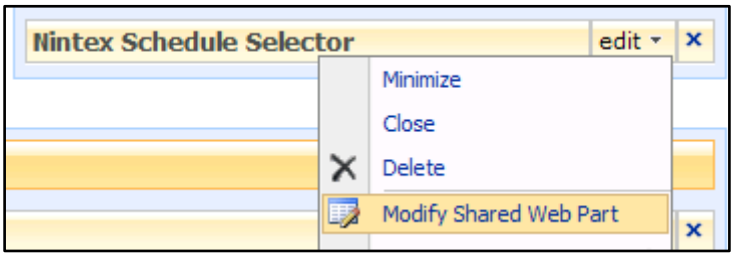


Step 3 – Configure the webparts

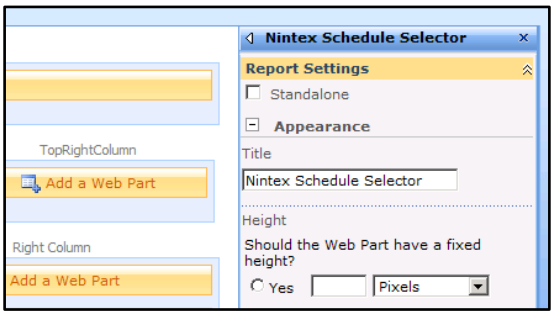
Click the edit button on the Nintex Schedule Selector webpart.



Press Modify Shared Web Part



This will open the Nintex Schedule Selector web part properties window.



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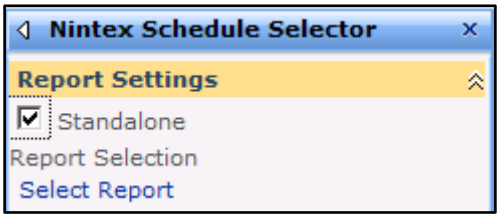
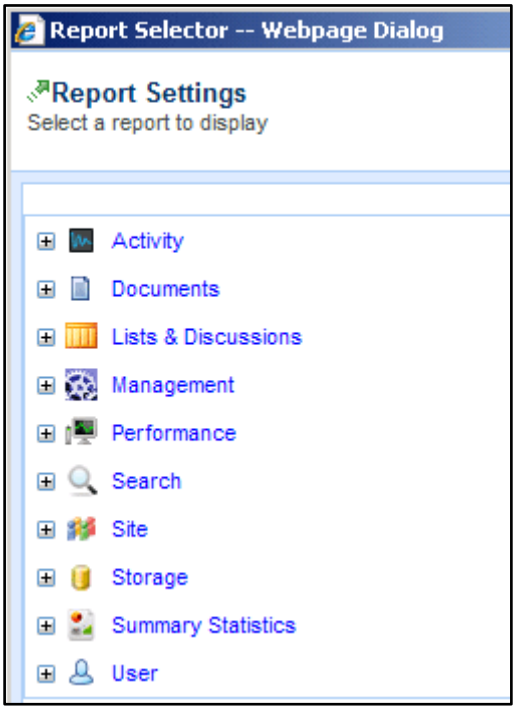
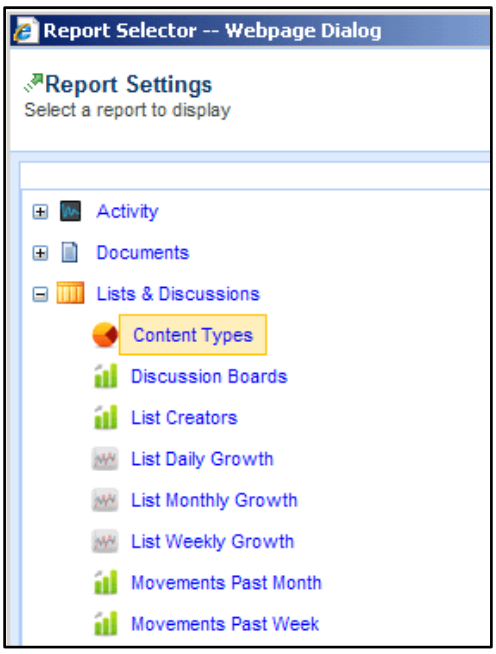
Tick the Standalone checkbox. The Report Selection link now appears.



Press the Select Report link. This opens the Report Selector window.



Expand the Lists & Discussions category and select the required report. In this example, we will select the Content Types report.



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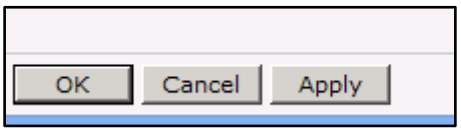
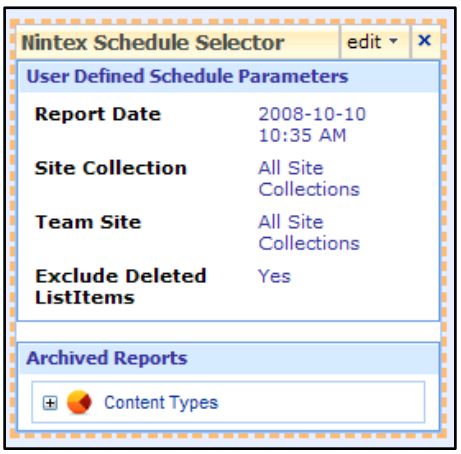
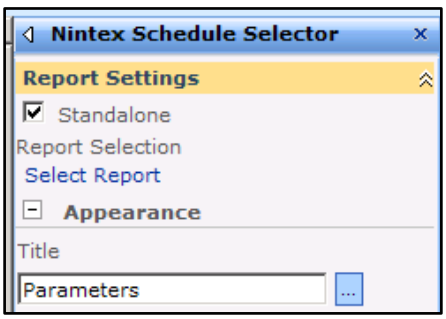
Press Save to close the the Report Selector window. Press Apply on the bottom right-hand side of the web part properties window.



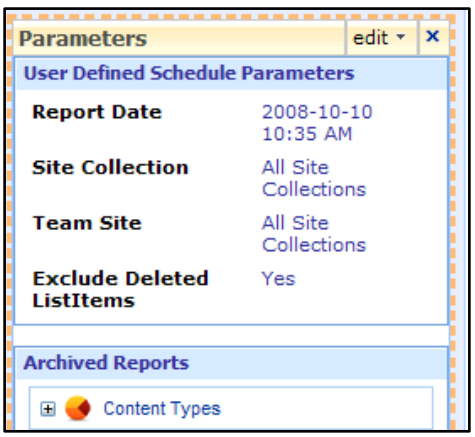
Pressing Apply will apply the report selection to the Nintex Schedule Selector webpart. Now the webpart displays the parameters used for the most recent run of the Content Types report, together with an Archived Reports section which allows selection of previous executions of this report.



In the webpart properties window, change the Title to **Parameters**.



Press Apply on the bottom right-hand side of the web part properties window. Notice that the Nintex Schedule Selector is now titled **Parameters**.



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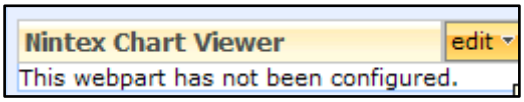
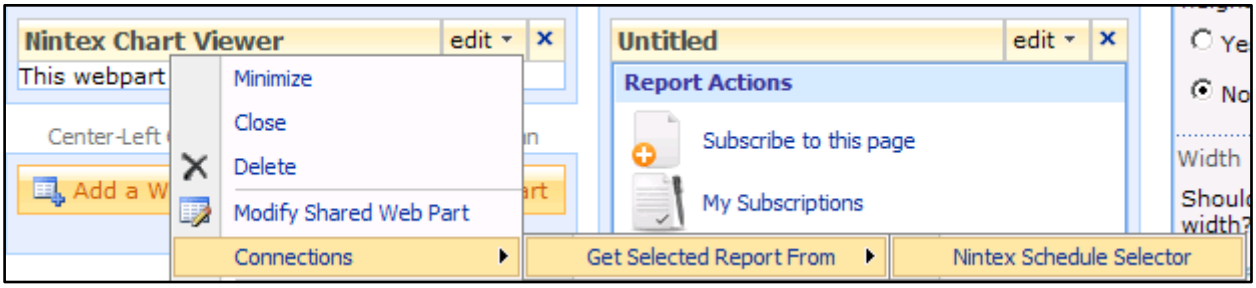
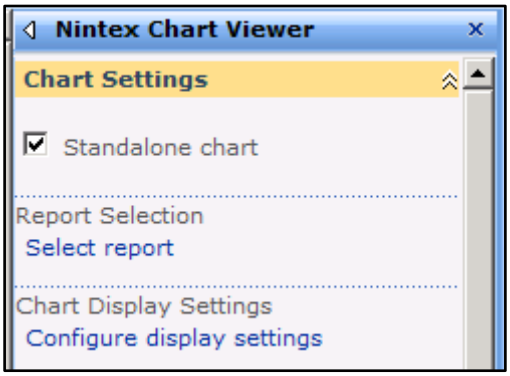
Press the Edit button on the Nintex Chart Viewer webpart.



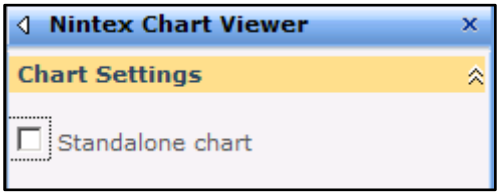
Press Connections, then Get Selected Report From, then Nintex Schedule Selector. This tells the Nintex Chart Viewer webpart to display the Content Types report that was selected in the Nintex Schedule Selector webpart. It also links the Nintex Chart Viewer to display any previous executions of the Content Types report.



Now press Modify Shared Web Part. This will open the webpart properties window for the Nintex Chart Viewer.



Untick the Standalone chart checkbox. This is not required, as this webpart is now connected to the Nintex Schedule Selector.



Click Apply on the bottom right-hand side of the properties window. This will refresh the Nintex Chart Viewer and display the chart for the Content Types report.

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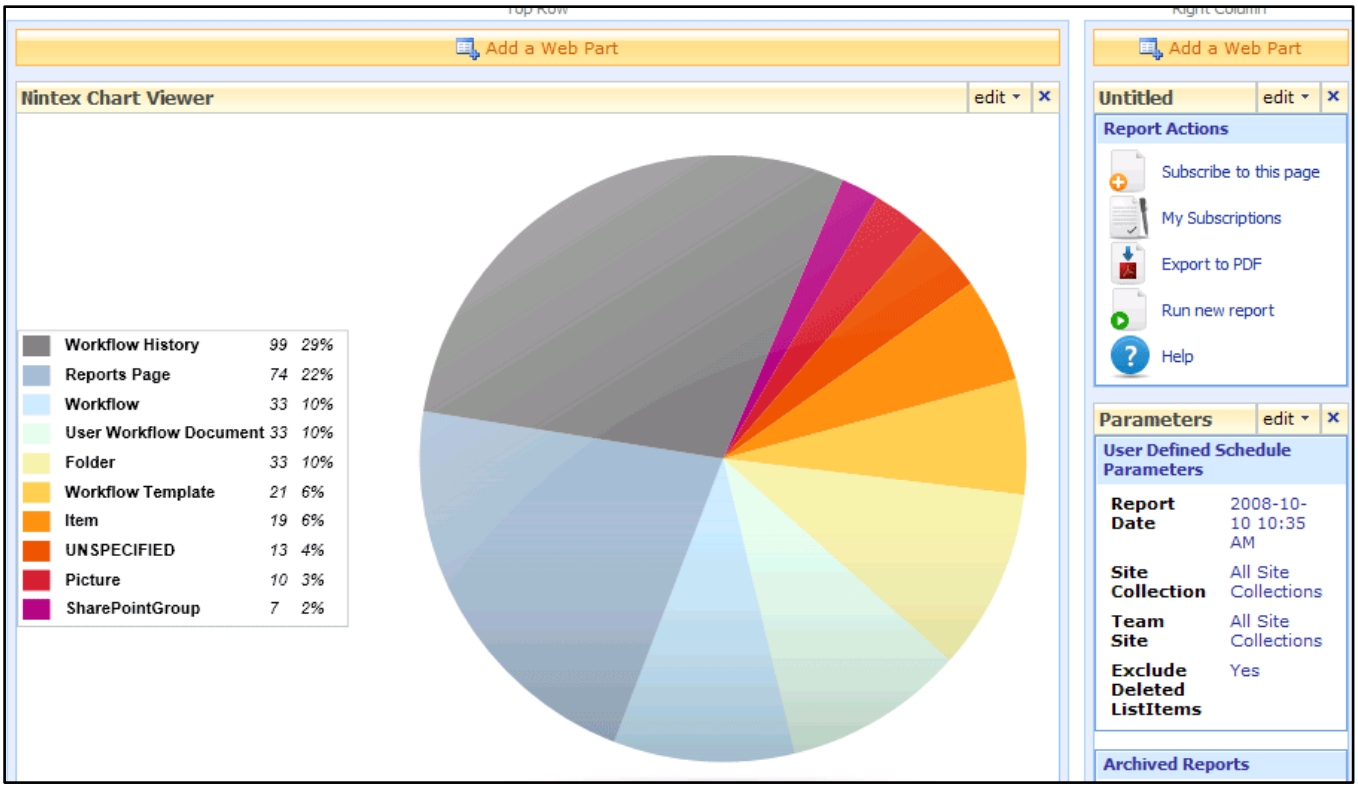
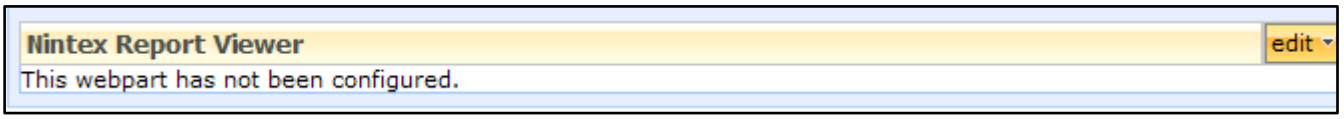
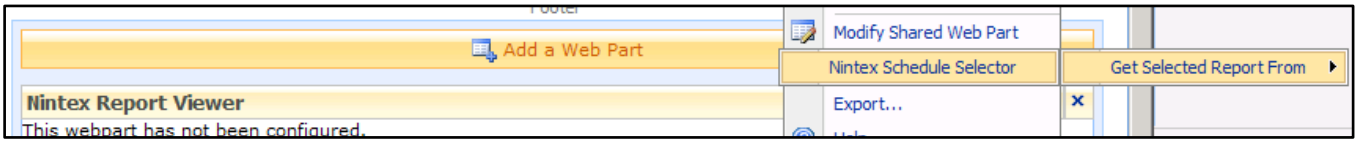


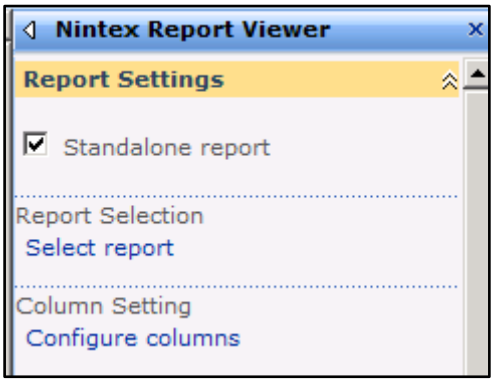
Now press the Edit button on the Nintex Report Viewer webpart.



Press Connections, then Get Selected Report From, then Nintex Schedule Selector. This tells the Nintex Report Viewer webpart to display the Content Types report that was selected in the Nintex Schedule Selector webpart. It also links the Nintex Report Viewer to display any previous executions of the Content Types report.



Now click Modify Shared Web Part on the Nintex Report Viewer. This will open the webpart properties window for the Nintex Report Viewer.



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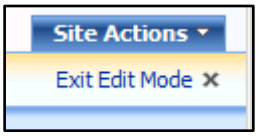
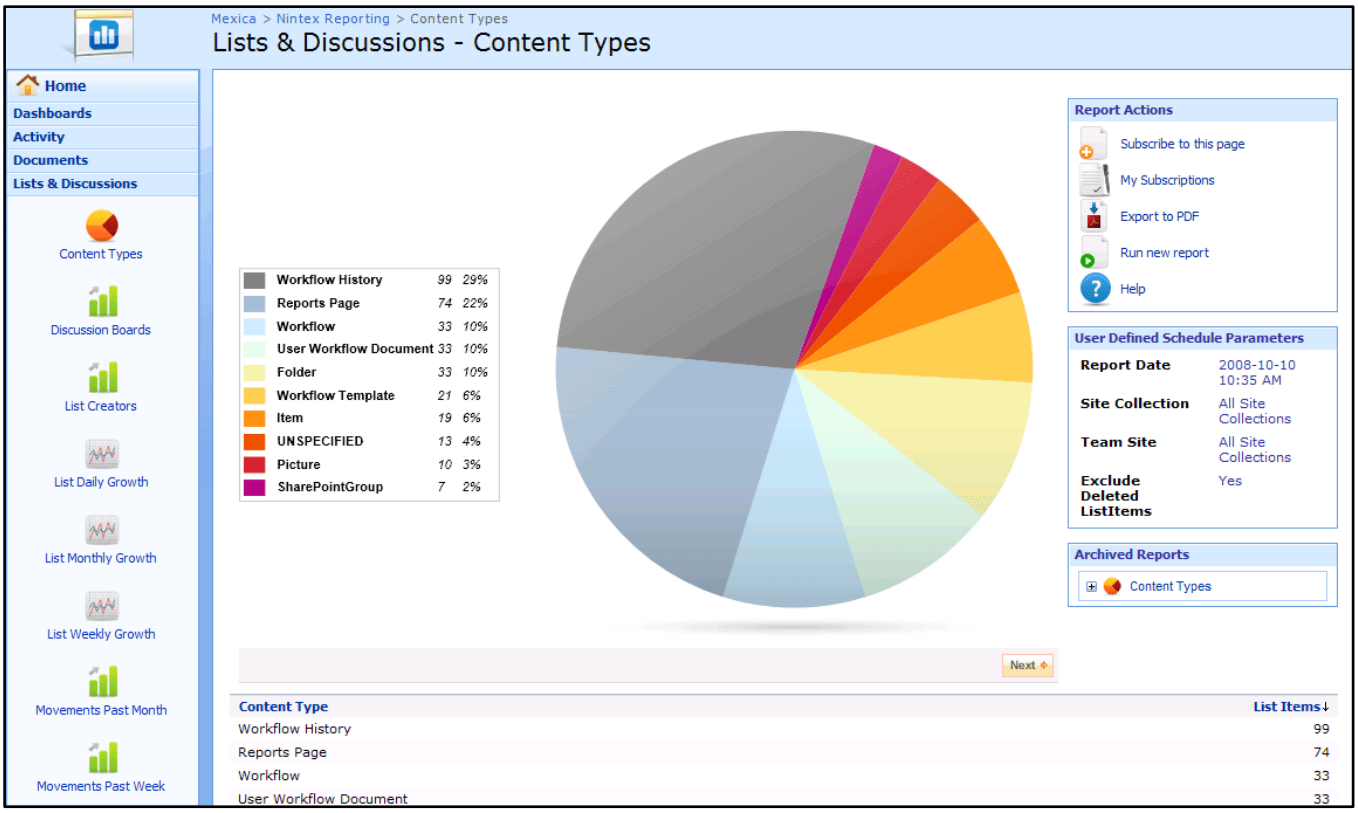
Again, untick the Standalone report checkbox. This is not required, as this webpart is now connected to the Nintex Schedule Selector.

Click OK on the bottom right-hand side of the properties window.

Now click the Exit Edit Mode link, on the top right-hand side of the page.



This will open the report page, fully configured with chart, tabular data, parameters and report actions.



Note that the Content Types report is also listed under the Lists & Discussions category in the left-hand navigation.

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REPORT DEFINITION SCHEMA

Reporting Definitions are used by Nintex Reporting 2008 to store report and chart settings. The definition is stored in xml format in the Cache and Configuration database, and is specific to each report and also each report schedule. When a new report schedule is created, the schedule definition is created by making a copy of the definition of the report on which the schedule is based.

The Report Definition stores settings such as the format of each column, which columns are to appear on the chart, the type of chart, the sort order, chart colours, legend settings, height and width settings, and report drill down information.

It is important to note that the Report Definition is generally case sensitive. When creating a new definition for a custom report, ensure that column names and element values conform to the schema documented below.

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REPORTDEFINITION

Top-level element that contains the definition of a report definition.

CHILD ELEMENTS

AllowCaching, AllowSorting , ArrayOfReportAxis, CacheTimeOut, ChartVisualParameters, DefaultSortDirection, DefaultSortExpression, Formatter, PageSize, ReportColumns, ReportDrilldownParameters, ReportResultType, Title

PARENT ELEMENTS

None

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <AllowCaching>true</AllowCaching>
      <AllowSorting>true</AllowSorting>
      <ArrayOfReportAxis />
      <CacheTimeOut>0</CacheTimeOut>
      <ChartVisualParameters />
      <DefaultSortDirection>A</DefaultSortDirection>
      <DefaultSortExpression>StartDate</DefaultSortExpression>
      <Formatter> </Formatter>
      <PageSize>10</PageSize>
      <ReportColumns />
      <ReportDrilldownParameters />
      <ReportResultType>Data</ReportResultType>
      <Title>showNoTitle</Title>
</ReportDefinition>
```


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ALLOWCACHING

Specifies if the report data should be cached.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
true	Specifies that the report data should be cached.
false	Specifies that the report data should not be cached.

EXAMPLE

Xml

```
<ReportDefinition>
      <AllowCaching>true</AllowCaching>
      :
      :
</ReportDefinition>
```


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ALLOWSORTING

Specifies if sorting should be enabled in the grid view.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
true	Specifies that sorting is allowed.
false	Specifies that sorting is not allowed.

EXAMPLE

Xml

```
<ReportDefinition>
      <AllowSorting>true</AllowSorting>
      :
      :
</ReportDefinition>
```


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ARRAYOFREPORTAXIS

Defines an array of x and y axis which can be selected and displayed on a chart.

CHILD ELEMENTS

ReportAxis

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 0
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ArrayOfReportAxis>
          <ReportAxis />
      </ArrayOfReportAxis>
      :
      :
</ReportDefinition>
```


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REPORTAXIS

Defines a named x and y axis combination to display on a chart.

CHILD ELEMENTS

DisplayName, XAxis, YAxis

PARENT ELEMENTS

ArrayOfReportAxis

OCCURRENCES

Minimum: 1
Maximum: unbounded

EXAMPLE

Xml

```
<ReportDefinition>
      <ArrayOfReportAxis>
            <ReportAxis>
                  <XAxis>TeamSiteName</XAxis>
                  <YAxis>NumberOfDocuments</YAxis>
                  <DisplayName>Documents Per TeamSite</DisplayName>
            </ReportAxis>
      </ArrayOfReportAxis>
      :
      :
</ReportDefinition>
```


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DISPLAYNAME

Defines the name of the x and y axis combination.

CHILD ELEMENTS

none

PARENT ELEMENTS

ReportAxis

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ArrayOfReportAxis>
            <ReportAxis>
                  <XAxis>TeamSiteName</XAxis>
                  <YAxis>NumberOfDocuments</YAxis>
                  <DisplayName>Documents Per TeamSite</DisplayName>
            </ReportAxis>
      </ArrayOfReportAxis>
      :
      :
</ReportDefinition>
```


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XAXIS

Defines the column for the x axis. The value is case sensitive and must match an existing ReportColumn Name element value.

CHILD ELEMENTS

none

PARENT ELEMENTS

ReportAxis

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ArrayOfReportAxis>
            <ReportAxis>
                  <XAxis>TeamSiteName</XAxis>
                  <YAxis>NumberOfDocuments</YAxis>
                  <DisplayName>Documents Per TeamSite</DisplayName>
            </ReportAxis>
      </ArrayOfReportAxis>
      :
      :
</ReportDefinition>
```


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YAXIS

Defines the column name for the y axis. The value is case sensitive and must match an existing ReportColumn Name element value.

CHILD ELEMENTS

none

PARENT ELEMENTS

ReportAxis

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ArrayOfReportAxis>
            <ReportAxis>
                  <XAxis>TeamSiteName</XAxis>
                  <YAxis>NumberOfDocuments</YAxis>
                  <DisplayName>Documents Per TeamSite</DisplayName>
            </ReportAxis>
      </ArrayOfReportAxis>
      :
      :
</ReportDefinition>
```


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CACHETIMEOUT

Specifies the cache timeout of the report data, in seconds.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <CacheTimeOut>60</CacheTimeOut>
      :
      :
</ReportDefinition>
```


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CHARTVISUALPARAMETERS

Defines the Chart settings for the report.

CHILD ELEMENTS

ChartTitle, ChartType, ColourMode, Colours, CustomYScale, FillColours, Height, LabelGroupBy, LegendDisplayType, MultiSeriesDisplayType, ShowAnimation, ShowLastUpdateInformation, ShowLegend, ShowLegendLabel, Width, X_Axis_name, Y_Axis_name, YScaleMax, YScaleMin

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <ChartTitle />
          <ChartType />
          :
          :
      </ChartVisualParameters>
</ReportDefinition>
```


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CHARTTITLE

Defines the Chart title. To hide the title, use the value showNoTitle.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <ChartTitle>Users This Month</ChartTitle>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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CHARTTYPE

Defines the Chart type. The setting is case sensitive and must match one of the values specified below.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
NotChart	Specifies that a chart should not be rendered.
BarChart2D	Specifies a 2-dimensional bar chart.
LineChart2D	Specifies a 2-dimensional line chart.
PieChart2D	Specifies a 2-dimensional pie chart
HorizontalBarChart2D	Specifies a 2-dimensional horizontal bar chart

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <ChartType>LineChart2D</ChartType>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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COLOURMODE

Defines the ColourMode settings for the chart. Normally for a single value column chart, this setting should be Columns, and for a multiple value column chart it should be set to Rows.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
Columns	Data is coloured by columns.
Rows	Data is coloured by rows.

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <ColourMode>Columns</ColourMode>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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COLOURS

Defines the colour settings for line and bar charts. For pie charts, specify an empty element. Default colour is #0074D5.

CHILD ELEMENTS

RGBColour

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <Colours>
              <RGBColour />
          </Colours>
      </ChartVisualParameters>
</ReportDefinition>
```

AVAILABLE COLOUR SETTINGS FOR R, G, B CHILD ELEMENTS

RGB colour	Colour	R decimal value	G decimal value	B decimal value
#0074D5		0	116	213
#0C9478		12	148	120
#2E7111		46	113	17
#339900		51	153	0
#E6B800		230	184	0
#FF6600		255	102	0
#E81313		232	19	19
#CF0A67		207	10	103
#663366		102	51	102
#003366		0	51	102

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RGBCOLOUR

Defines the RGB additive colour model settings for the Colours element.

CHILD ELEMENTS

B, G, R

PARENT ELEMENTS

Colours

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <Colours>
              <RGBColour>
                  <B />
                  <G />
                  <R />
              </RGBColour>
          </Colours>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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B

Defines the blue component of the RGB additive colour model. The value must be an integer between 0 and 255 inclusive.

CHILD ELEMENTS

none

PARENT ELEMENTS

RGBColour

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <Colours>
              <RGBColour>
                  <B>255</B>
                  <G>102</G>
                  <R>0</R>
              </RGBColour>
          </Colours>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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G

Defines the green component of the RGB additive colour model. The value must be an integer between 0 and 255 inclusive.

CHILD ELEMENTS

none

PARENT ELEMENTS

RGBColour

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <Colours>
              <RGBColour>
                  <B>255</B>
                  <G>102</G>
                  <R>0</R>
              </RGBColour>
          </Colours>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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R

Defines the red component of the RGB additive colour model. The value must be an integer between 0 and 255 inclusive.

CHILD ELEMENTS

none

PARENT ELEMENTS

RGBColour

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <Colours>
              <RGBColour>
                  <B>255</B>
                  <G>102</G>
                  <R>0</R>
              </RGBColour>
          </Colours>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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CUSTOMYSCALE

Defines whether a custom Y scale is to be used for the chart. If true, YScaleMin and YScaleMax must be set.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 0
Maximum: 1

VALUES

Value	Description
true	Defines whether a custom Y scale is to be used for the chart.
false	Defines whether a custom Y scale is not to be used for the chart.

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <CustomYScale>true</CustomYScale>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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FILLCOLOURS

Reserved for future use. For all chart types, specify an empty element.

CHILD ELEMENTS

RGBColour

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <FillColours />
      </ChartVisualParameters>
</ReportDefinition>
```

AVAILABLE COLOUR SETTINGS FOR R, G, B CHILD ELEMENTS

RGB colour	Colour	R decimal value	G decimal value	B decimal value
#0074D5		0	116	213
#0C9478		12	148	120
#2E7111		46	113	17
#339900		51	153	0
#E6B800		230	184	0
#FF6600		255	102	0
#E81313		232	19	19
#CF0A67		207	10	103
#663366		102	51	102
#003366		0	51	102

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RGBCOLOUR

Defines the RGB additive colour model settings for the FillColours element.

CHILD ELEMENTS

B, G, R

PARENT ELEMENTS

FillColours

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <FillColours>
              <RGBColour>
                  <B />
                  <G />
                  <R />
              </RGBColour>
          </FillColours>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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B

Defines the blue component of the RGB additive colour model. The value must be an integer between 0 and 255 inclusive.

CHILD ELEMENTS

none

PARENT ELEMENTS

RGBColour

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <FillColours>
              <RGBColour>
                  <B>255</B>
                  <G>102</G>
                  <R>0</R>
              </RGBColour>
          </FillColours>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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G

Defines the green component of the RGB additive colour model. The value must be an integer between 0 and 255 inclusive.

CHILD ELEMENTS

none

PARENT ELEMENTS

RGBColour

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <FillColours>
              <RGBColour>
                  <B>255</B>
                  <G>102</G>
                  <R>0</R>
              </RGBColour>
          </FillColours>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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R

Defines the red component of the RGB additive colour model. The value must be an integer between 0 and 255 inclusive.

CHILD ELEMENTS

none

PARENT ELEMENTS

RGBColour

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <FillColours>
              <RGBColour>
                  <B>255</B>
                  <G>102</G>
                  <R>0</R>
              </RGBColour>
          </FillColours>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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HEIGHT

Defines the height of the chart, in pixels. This element accepts a value of type Integer.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <Height>250</Height>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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LABELGROUPBY

Defines the LabelGroupBy setting for the chart. Normally, this is set to Column if only one value column is present on the chart, and set to Series if multiple value columns are present on the chart.

If using the MultiSeriesDisplayType setting of Sequence, and a ChartType setting of BarChart2D or HorizontalBarChart2D, then this setting must be Column. For all other MultiSeriesDisplayType settings, it should be Series.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
Column	Defines whether a custom Y scale is to be used for the chart.
Series	Defines whether a custom Y scale is not to be used for the chart.
None	This will prevent the x-axis label from displaying.

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <LabelGroupBy>Column</LabelGroupBy>
      </ChartVisualParameters>

      :
      :
</ReportDefinition>
```


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LEGENDDISPLAYTYPE

Defines the LegendDisplayType setting for the chart. The value is case sensitive and must match a value below. Note this setting is only applicable for PieChart2D chart types.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 0
Maximum: 1

VALUES

Value	Description
All	Specifies that the legend should display numbers and percentages.
NumberOnly	Specifies that the legend should only show numbers.
PercentageOnly	Specifies that the legend should only show percentages.

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <LegendDisplayType />
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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MULTISERIESDISPLAYTYPE

Defines the MultiSeriesDisplayType setting for the chart.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 0
Maximum: 1

VALUES

Value	Description
None	Default, specifies that Multi-Series is not used for this chart
Overlay	Overlay each series, applicable only for ChartType = LineChart2D
Adjacent	Render each series adjacent to each other, with each series data point grouped together, applicable only for ChartType =BarChart2D or HorizontalBarChart2D
InSequence	Render each series as a separate chart next to the other, applicable only for ChartType =BarChart2D or HorizontalBarChart2D
OnTop	Render 1 series on top of another, applicable only for ChartType =BarChart2D or HorizontalBarChart2D

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <MultiSeriesDisplayType>Overlay</MultiSeriesDisplayType>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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SHOWANIMATION

Defines whether or not to show animation when rendering the chart.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 0
Maximum: 1

VALUES

Value	Description
true	Specifies that animation is used when rendering the chart.
false	Specifies that animation is not used when rendering the chart.

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <ShowAnimation>true</ShowAnimation>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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SHOWLASTUPDATEINFORMATION

Defines whether or not to show the last updated timestamp for the chart.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
true	Specifies that the last updated timestamp will be shown.
false	Specifies that the last updated timestamp not will be shown.

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <ShowLastUpdatedInformation>true</ShowLastUpdatedInformation>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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SHOWLEGEND

Defines whether or not to show the legend.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
true	Specifies that the legend will be shown.
false	Specifies that the legend will not be shown.

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <ShowLegend>true</ShowLegend>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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SHOWLEGENDLABEL

Defines whether or not the legend label will be shown.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
true	Specifies that the legend label will be shown.
false	Specifies that the legend label will not be shown.

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <ShowLegendLabel>true</ShowLegendLabel>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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WIDTH

Defines width of the chart, in pixels. This element accepts a value of type Integer.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <Width>700</Width>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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X_AXIS_NAME

Defines the label to assign to the x axis; this will override any individual ReportColumn settings.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <X_Axis_Name>Creation Date</X_Axis_Name>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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Y_AXIS_NAME

Defines the label to assign to the y axis; this will override any individual ReportColumn settings.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <Y_Axis_Name>Team Sites</Y_Axis_Name>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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YSCALEMAX

Defines the y axis scale maximum value. This element accepts a value of type Double.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 0
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <YScaleMax>1000</YScaleMax>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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YSCALEMIN

Defines the y axis scale minimum value. This element accepts a value of type Double.

CHILD ELEMENTS

none

PARENT ELEMENTS

ChartVisualParameters

OCCURRENCES

Minimum: 0
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <ChartVisualParameters>
          <YScaleMax>250</YScaleMax>
      </ChartVisualParameters>
      :
      :
</ReportDefinition>
```


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DEFAULTSORTDIRECTION

Defines the sort direction for the column specified in the DefaultSortExpression element.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
A	Applied an ascending sort order.
D	Applied a descending sort order.

EXAMPLE

Xml

```
<ReportDefinition>
      <DefaultSortDirection>A</DefaultSortDirection>
      :
      :
</ReportDefinition>
```


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DEFAULTSORTEXPRESSION

Specify the default column to sort by.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <DefaultSortExpression>StartDate</DefaultSortExpression>
      :
      :
</ReportDefinition>
```


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FORMATTER

Represents the Report Formatter for a Report Definition. The Report Formatter is used for rendering a report's contents through a third party .net assembly.

Note: Nintex Reporting ships with a HTML and PDF Report Formatter which is used by the Summary View web part, and can be re-used by developers that are building new summary view reports. The appendix **Nintex Reporting Summary View Formatter** provides further information on the functionality of the Report Formatter.

CHILD ELEMENTS

Assembly, Data, Type

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 0
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <Formatter>
            <Assembly>
            Nintex.Reporting.UI.WSS.ServerControls, Version=1.0.0.0,
            Culture=neutral, PublicKeyToken=df8bc1a8465564d9
            </Assembly>
            <Data><![CDATA[..]]></Data>
            <Type>
            Nintex.Reporting.UI.WSS.ServerControls.Pdf.NRSummaryViewerFormatter
            </Type>
      </Formatter>
      :
      :
</ReportDefinition>
```


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ASSEMBLY

Specifies the fully qualified reference to the .net assembly that contains the Report Formatter implementation.

CHILD ELEMENTS

None

PARENT ELEMENTS

Formatter

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <Formatter>
            <Assembly>
            Nintex.Reporting.UI.WSS.ServerControls, Version=1.0.0.0,
            Culture=neutral, PublicKeyToken=df8bc1a8465564d9
            </Assembly>
            <Data><![CDATA[..]]></Data>
            <Type>
            Nintex.Reporting.UI.WSS.ServerControls.Pdf.NRSummaryViewerFormatter
            </Type>
      </Formatter>
      :
      :
</ReportDefinition>
```


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DATA

Specifies custom data for the selected Report Formatter. This element is used to store custom information required by the Report Formatter, each Report Formatter will have unique requirements on the support data which can be supplied in this element.

Note: Nintex Reporting ships with a HTML and PDF Report Formatter which is used by the Summary View web part, and can be re-used by developers that are building new summary view reports. The appendix **Nintex Reporting Summary View Formatter** provides further information on the functionality of the Report Formatter.

CHILD ELEMENTS

None

PARENT ELEMENTS

Formatter

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <Formatter>
            <Assembly>
            Nintex.Reporting.UI.WSS.ServerControls, Version=1.0.0.0,
            Culture=neutral, PublicKeyToken=df8bc1a8465564d9
            </Assembly>
            <Data><![CDATA[..]]></Data>
            <Type>
            Nintex.Reporting.UI.WSS.ServerControls.Pdf.NRSummaryViewerFormatter
            </Type>
      </Formatter>
      :
      :
</ReportDefinition>
```


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TYPE

The fully qualified named object (class) in the .net assembly.

CHILD ELEMENTS

None

PARENT ELEMENTS

Formatter

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <Formatter>
            <Assembly>
            Nintex.Reporting.UI.WSS.ServerControls, Version=1.0.0.0,
            Culture=neutral, PublicKeyToken=df8bc1a8465564d9
            </Assembly>
            <Data><![CDATA[..]]></Data>
            <Type>
            Nintex.Reporting.UI.WSS.ServerControls.Pdf.NRSummaryViewerFormatter
            </Type>
      </Formatter>
      :
      :
</ReportDefinition>
```


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PAGESIZE

Specifies the page size used when returning the data.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <PageSize>20</PageSize>
      :
      :
</ReportDefinition>
```


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REPORTCOLUMNS

Top level element that contains the definition of report columns.

CHILD ELEMENTS

ReportColumn

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <DisplayName>Idle Time</DisplayName>
               <DisplayType>DateTime</DisplayType>
               <DrilldownReportID>7EDF3E9F-30ED-480D-A82C-
               12A4849E9671</DisplayType>
               <FormatString>DateOnly</FormatString>
               <IsHidden>false</IsHidden>
               <IsTextColumn>false</IsTextColumn>
               <IsValueColumn>true</IsValueColumn>
               <Name>IdleTime</Name>
               <Sortable>true</Sortable>
               <SortExpression>IdleTime</SortExpression>
               <UrlFormatString>/_layouts/NintexReporting/Redirect.aspx?WebID={
               0}&amp;SiteID={1} </UrlFormatString>
               <UrlColumnNames>WebId,SiteId</UrlColumnNames>
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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REPORTCOLUMN

Describes a column to be returned in the report.

CHILD ELEMENTS

DisplayName, DisplayType, DrilldownReportID, FormatString, IsHidden, IsTextColumn, IsValueColumn, Name, Sortable, SortExpression, UrlFormatString, UrlColumnNames

PARENT ELEMENTS

ReportColumns

OCCURRENCES

Minimum: 1
Maximum: Unbounded

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <DisplayName>Idle Time</DisplayName>
               <DisplayType>DateTime</DisplayType>
               <DrilldownReportID>7EDF3E9F-30ED-480D-A82C-
               12A4849E9671</DrilldownReportID>
               <FormatString>DateOnly</FormatString>
               <IsHidden>false</IsHidden>
               <IsTextColumn>false</IsTextColumn>
               <IsValueColumn>true</IsValueColumn>
               <Name>IdleTime</Name>
               <Sortable>true</Sortable>
               <SortExpression>IdleTime</SortExpression>
               <UrlFormatString>/_layouts/NintexReporting/Redirect.aspx?WebID={
               0}&amp;SiteID={1} </UrlFormatString>
               <UrlColumnNames>WebId,SiteId</UrlColumnNames>
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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DISPLAYNAME

Specifies the display name of the data item in the grid view.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <DisplayName>Idle Time</DisplayName>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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DISPLAYTYPE

Specifies the type of data to be rendered in the grid view, to ensure the data is correctly represented. If omitted, the value Default is used.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 0
Maximum: 1

VALUES

Value	Description
Default	Used for text values
Person	Converts a loginname (domain\username) to a displayname with OCS presence
TimeSpan	Specifies a time span value
Number	A numeric value
Hyperlink	Used with UrlFormatString and UrlColumnName to create a hyperlink
DateTime	A datetime value

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <DisplayType>DateTime</DisplayType>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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DRILLDOWNREPORTID

Specifies the report Guid which matches the ReportDrilldownParameter ReportID value. This allows individual columns to drilldown to different reports, defined in the ReportDrilldownParameters element.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 0
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <DrilldownReportID>7EDF3E9F-30ED-480D-A82C-
               12A4849E9671</DrilldownReportID>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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FORMATSTRING

The standard .net format string to be passed to the **ToString** operator when rendering the field. DateTime data type columns can use DateTime, DateOnly or TimeOnly. Numeric datatype columns can use #,##0.00, for example.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 0
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <FormatString>#,##0.000MB</FormatString>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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ISHIDDEN

Specifies whether or not to hide the column. If omitted, the column is shown.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 0
Maximum: 1

VALUES

Value	Description
true	Hides the column.
false	Shows the column.

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <IsHidden>true</IsHidden>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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ISTEXTCOLUMN

Identifies this column as a key text field used when generating charts. IsTextColumn can be "true" for only one ReportColumn. If a chart type other than NotChart is specified, IsTextColumn must be set to "true" for one of the ReportColumn elements. If omitted, the setting is "false".

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
true	Signifies the column is a text field.
false	Signifies the column is not a text field.

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <IsTextColumn>true</IsTextColumn>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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ISVALUECOLUMN

Identifies this column as a value field used when generating charts. IsValueColumn can be "true" for only one ReportColumn, unless a multiseries chart type is specified. If a chart type other than NotChart is specified, IsTextColumn must be set to "true" for at least one of the ReportColumn elements. If omitted, the setting is "false".

Child Elements

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 0
Maximum: 1

VALUES

Value	Description
true	Signifies the column is a value field.
false	Signifies the column is not a value field.

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <IsValueColumn>true</IsValueColumn>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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NAME

Specifies the internal name of the data item. The value of the Name element is case sensitive and must match the name of the column specified in the Report Stored Procedure and/or the Report Cache Table.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <Name>CreationDate</Name>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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SORTABLE

Specifies if the column allows sorting. If omitted, the column is not sortable.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 0
Maximum: 1

VALUES

Value	Description
true	Signifies the column can be sorted.
false	Signifies the column cannot be sorted.

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <Sortable>false</Sortable>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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SORTEXPRESSION

Specifies the sort expression that is used by a data source control to sort data. The value of the SortExpression column is case sensitive and must match a column name in the dataset. If omitted, the column is not sortable.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 0
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <SortExpression>StartDate</SortExpression>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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URLCOLUMNNAMES

Specifies the columns names used to replace the format items in **UrlFormatString**. The comma-separated values in the UrlColumnNames element are case sensitive and must match columns in the dataset.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 0
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <UrlColumnNames>WebId,SiteId</UrlColumnNames >
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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URLFORMATSTRING

The template of the Url with format items which are replaced with values specified in **UrlColumnNames**. The number of placeholders in the Url must match the number of comma-separated columns specified in **UrlColumnNames**.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportColumn

OCCURRENCES

Minimum: 0
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportColumns>
          <ReportColumn>
               <UrlFormatString>/_layouts/NintexReporting/Redirect.aspx?WebID={
               0}&amp;SiteID={1} </UrlFormatString>
               :
               :
          </ReportColumn>
     </ReportColumns>
</ReportDefinition>
```


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REPORTDRILLDOWNPARAMETERS

Specifies the Report Drilldown Parameters required to enable a report to support drilldown functionality.

For drilldown reports which do not have any parameters, use the ReportColumn DrilldownReportID child element .

CHILD ELEMENTS

ReportDrilldownParameter

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 0
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportDrilldownParameters>
          <ReportDrilldownParameter />
     </ ReportDrilldownParameters >
</ReportDefinition>
```


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REPORTDRILLDOWNPARAMETER

Represents a parameter required for a drilldown report. This parameter will be passed to the stored procedure required to execute the drilldown report. In the example below, the ReportID is the GUID specified in the dbo.Reports table. The stored procedure for the report specified by this GIUD requires 4 parameters; SiteID, WebID, IntervalInMinutes and TimePeriodType.

Note that either field or value attributes must be specified, but not both. Note also that the name and field attribute values are case sensitive. Use value="DBNull" to set a parameter value to null.

CHILD ATTRIBUTES

Field, Name, ReportID, Value

PARENT ELEMENTS

ReportDrilldownParameters

OCCURRENCES

Minimum: 1
Maximum: unbounded

ATTRIBUTES

Attribute	Description	Required
ReportID	The Guid specified in the dbo.Reports table which identifies the report.	Yes
name	The name of the parameter required by the report's stored procedure.	Yes
field	The name of the field whose value will be assigned to the parameter.	No
value	A literal value to be assigned to the parameter.	No

EXAMPLE

Xml

```
<ReportDefinition>
     <ReportDrilldownParameters>
          <ReportDrilldownParameter ReportID="3EBA3733-BF81-45EF-894F-
139B4A354367" name="SiteID" field="SiteId" />
          <ReportDrilldownParameter ReportID="3EBA3733-BF81-45EF-894F-
139B4A354367" name="WebID" field="WebId" />
          <ReportDrilldownParameter ReportID="3EBA3733-BF81-45EF-894F-
139B4A354367" name="IntervalInMinutes" value="60" />
               <ReportDrilldownParameter ReportID="3EBA3733-BF81-45EF-894F-
     139B4A354367" name="TimePeriodType" value="DBNull" />
     </ ReportDrilldownParameters >
</ReportDefinition>
```


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REPORTRESULTTYPE

Specifies the report result type.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
Data	Indicates the report consists of a standard recordset
XML	Indicates the report renders Xml and requires specific Xslt, used for summary statistic dashboard webpart reports only.

EXAMPLE

Xml

```
<ReportDefinition>
      <ReportResultType>Data</ReportResultType>
      :
      :
</ReportDefinition>
```


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TITLE

Specifies the report title. Use the literal showNoTitle to ensure a title will not be rendered.

CHILD ELEMENTS

None

PARENT ELEMENTS

ReportDefinition

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ReportDefinition>
      <Title>Lists Created This Month</Title>
      :
      :
</ReportDefinition>
```


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DATABASE SCHEMA

This section details the two types of databases that store Nintex Reporting information. The **cache and configuration database** is the central database which contains global settings, report metadata and report snapshots. There can only be one configuration database per SharePoint farm.

The second type of database is the **data warehouse** and stores data used to generate reports.

CONFIGURATION DATABASE

CONFIGURATION TABLES

This section describes the system configuration tables. These table are accessed via Central Administration only.

CfgBIServer

This table lists instances of the Data Management Service.

Column	Type	Description
BIServerId	int identity	PK
BIServerName	nvarchar (255)	The name of the Data Management Service
BIServiceURI	nvarchar (255)	The URI of the Data Management Service
BIUserName	nvarchar (255)	The username under which the service runs
Version	nvarchar (50)	The current version of the service

CfgBIUsers

This table lists users who can access the Data Management Service.

Column	Type	Description
UserIdentifier	nvarchar (255)	The username with permission to call the Data Management Service

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CfgDispatcher

This table lists instances of the Dispatcher Service.

Column	Type	Description
DispatcherId	int identity	PK
DispatcherName	nvarchar (255)	The name of the Dispatcher Service
DispatcherURI	nvarchar (512)	The URI of the Dispatcher Service
UserName	nvarchar (255)	The username under which the service runs

CfgLicenseInfo

This table stored License information.

Column	Type	Description
LicenseData	text	The license file

CfgSensor

This table lists instances of Collectors.

Column	Type	Description
SensorId	int identity	PK
SensorName	nvarchar (255)	The name of the collector
SensorURI	nvarchar (512)	The URI of the collector
SensorTypeId	int	FK, see CfgSensorType
UserName	nvarchar (255)	The username under which the collector runs

CfgSensorType

This table lists the different types of Collectors available

Column	Type	Description
SensorTypeId	int identity	PK
SensorTypeName	varchar (50)	The SensorType name

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CfgSensorType

CfgSystem

This table holds a summary of system configuration, including virtual URI addresses.

Column	Type	Description
SensorURI	nvarchar (512)	The virtual URI for Collector
DispatcherURI	nvarchar (512)	The virtual URI for the Dispatcher Service
DataWarehouseConnectionString	nvarchar (512)	The Sql Server connection string for the data warehouse
DataCacheConnectionString	nvarchar (512)	The Sql Server connection string for the cache and configuration database
BIURI	nvarchar (512)	The virtual URI for the Data Management Service
BIUserName	nvarchar (255)	The username under which the Data Management Service runs
DBServer	nvarchar (512)	The name of the database server for the cache and configuration database
DWDataLifeSpan	int	The number of months worth of data to keep in the data warehouse
ReportCenterSiteGUID	uniqueidentifier	The Site Collection identifier in which to create the ReportCenter
ReportCenterWebGUID	uniqueidentifier	The TeamSite identifier in which to create the ReportCenter
ReportCenterListGUID	uniqueidentifier	The List identifier for the ReportCenter

CfgVersion

This table holds the current Configuration database version.

Column	Type	Description
Version	nvarchar (50)	The cache and configuration database version

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METADATA TABLES

These table hold metadata required for Reports, Schedules, Subscriptions

DashboardWebpartSubscription

This table holds subscription information, linking a subscriber to a report or dashboard page.

Column	Type	Description
SubscriptionID	int identity	PK
SubscriberID	int	FK, see Subscriber
WebPageRelativeURL	nvarchar (2048)	The URL of the webpart page
Interval	int	The interval for the subscription
Unit	nvarchar (8)	The unit for the subscription
NextRun	datetime	Date of the next subscription run
SubscriptionType	nvarchar (255)	The type of subscription
IsRunning	bit	Whether the subscription is currently running
WebUrl	nvarchar (255)	
LockTime	datetime	Datetime the subscription commenced running

DataCache

This table is used for the caching of report metadata and data.

Column	Type	Description
CacheKey	nvarchar (255)	The Cache key
CacheValue	text	The Cache value
Expiry	datetime	Date of expiry for this cached item

DBType

This table lists the Sql Server datatypes available for Sql Server stored procedures.

Column	Type	Description
ID	int	PK
Desc	nvarchar (32)	The description of the data type

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ObjectItemSecurity

This table lists items and the SharePoint Role which can access them. Overrides settings in ObjectRoleSecurity.

Column	Type	Description
ObjectItemSecurityId	int identity	PK
ItemGUID	uniqueidentifier	Reference a ReportGUID or ScheduleGUID
SharePointRoleId	int	

ObjectRoleSecurity

This table holds information linking a application security role with a SharePoint Role.

Column	Type	Description
ObjectRoleSecurityId	int identity	PK
ObjectRoleSecurityName	nvarchar (255)	The name of the Role
SharePointRoleId	int	

ParamDisplayTypes

This table lists the available display types for Report parameters.

Column	Type	Description
ID	int	PK
Desc	nvarchar (32)	The description of the parameter display type

ReportCategory

This table lists the available categories to which a Report can belong.

Column	Type	Description
ReportCategoryID	int identity	PK
DisplayName	nvarchar (255)	The display name for the ReportCategory
Description	nvarchar (255)	The description for the ReportCategory

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ReportCategory

IconURL	nvarchar (2048)	Path to the icon for the ReportCategory

ReportExecutionParams

This table stores Sql Server stored procedure parameter values for each Archived Report.

Column	Type	Description
ParamID	int	FK, see ReportParams
ReportExecutionInstanceID	int	FK, see ReportExecutions
ParamValue	nvarchar (512)	The value that was passed to the parameter

ReportExecutions

This table stores metadata for each Archived Report.

Column	Type	Description
ReportID	int	FK, see Reports
ReportExecutionInstanceID	int identity	PK
StartTime	datetime	The time when this execution began
EndTime	datetime	The time when this execution completed
Successful	bit	Whether or not this execution was successful
ScheduleID	int	FK, see ReportSchedules
SiteID	uniqueidentifier	Reserved for future use

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ReportParams

This table stores metadata for each Sql Server stored procedure parameter for each available Report.

Column	Type	Description
ParamID	int identity	PK
ReportID	int	FK, see Reports
ParamName	nvarchar (255)	The name of the parameter
ParamDBType	int	The parameter's data type
ParamDisplayTypeID	int	The parameter's display type
DisplayName	nvarchar (255)	The display name for the parameter
Description	nvarchar (2048)	A description of the parameter
AllowNull	bit	Whether the parameter is nullable
Sliding	bit	Whether the parameter requires updating after execution. For example, StartDate and EndDate parameters require updating.
DisplayOrder	int	The order in which to display parameters for this ReportID
Hidden	bit	Whether the parameter is hidden
DefaultValue	nvarchar (1024)	A default value to use for the parameter

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Reports

This table stores metadata for each available Report.

Column	Type	Description
ReportID	int identity	PK
ReportGuid	uniqueidentifier	A system generated GUID
ReportName	nvarchar (255)	The report name
TableName	nvarchar (255)	The table in which to hold cached data
ReportRunnerStoredProcedure	nvarchar (255)	The stored procedure required to run the report
ReportRunTimeOut	int	The stored procedure timeout, in seconds
ReportCleanUpStoredProcedure	nvarchar (255)	The stored procedure required to update any datetime parameters
ReportDefinitionXML	text	Describes how to display report results
ReportCategoryID	int	FK, see ReportCategory
ReportIconURL	nvarchar (255)	Path to the report icon
Description	nvarchar (512)	A description of the report
SupportsPaging	bit	Whether the report support paging
DrilldownAccessOnly	bit	Whether the report is accessible via drilldown
AllowDrilldown	bit	Whether the report allows drilldown
DrilldownReportId	int	FK, denotes the drilldown report
UserAccessible	bit	Whether the report is accessible to the user

ReportScheduleRunParams

This table lists the Sql Server stored procedure parameter values to be used for the next Archived Report run.

Column	Type	Description
ParamID	int	FK, see ReportParams
ScheduleID	int	FK, see ReportSchedules
ParamValue	nvarchar (512)	The parameter value to be used for the next Archived Report

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ReportSchedules

This table stores metadata for each Archived Report schedule.

Column	Type	Description
ScheduleID	int identity	PK
ScheduleGuid	uniqueidentifier	A system generated GUID
Name	nvarchar	The name of the schedule
DisplayName	nvarchar	The display name of the schedule
ReportID	int	FK, see Reports
StartTime	datetime	The earliest time the schedule can run
EndTime	datetime	The latest time the schedule can run
Active	bit	Whether the schedule is currently active
IsOneOffSchedule	bit	Whether the schedule is a one off schedule
Interval	int	The interval for the schedule
Unit	nvarchar (8)	The unit, eg Minute, Hour, Day, Week
ExecutionsToKeep	int	The number of Archived Reports to cache
NextRun	datetime	The date of the next run time for this schedule
SiteID	uniqueidentifier	Reserved for future use
Description	nvarchar (2048)	Description for the schedule
CurrentlyRunning	bit	Whether the schedule is currently executing
IsRelatedScheduleMember	bit	Whether this schedule is related to any others
RelatedScheduleDisplayOrder	int	The order of related schedules
RelatedScheduleDisplayName	nvarchar (255)	The name of the related schedule
RelatedGroupId	int	The GroupId, required for related schedules
ReportDefinitionXML	text	Describes how to display schedule results
AllowDrilldown	bit	Whether to all drilldown to another report
DrillDownReportId	int	Reserved for future use
UserAccessible	bit	Whether the schedule is accessible by the user
TimeZoneStandardName	nvarchar (64)	The timezone name in which the schedule exists
LockTime	datetime	Indicates when the schedule began to execute

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ReportSchedules

ExecutionMergeType	tinyint	Reserved for future use

ScheduleEmail

This table is reserved for possible future functionality.

Column	Type	Description
ScheduleID	int	
EmailAddress	nvarchar (255)	

ServiceUpgradeLog

This table store log files when a Collector or service, eg Data Management Service, is upgraded.

Column	Type	Description
SULID	int identity	PK
ServiceUpgradeDefinition	nvarchar (1000)	The upgrade definition
LogFile	text	The log file
Start	datetime	The time when the upgrade started
End	datetime	The time when the upgrade completed
Successful	bit	Whether the upgrade was successful
Type	int	

Subscriber

This table lists Report and Dashboard page subscribers.

Column	Type	Description
SubscriberID	int identity	PK
LoginName	nvarchar (255)	The loginname of the subscriber
Email	nvarchar (255)	The email address for the subscriber

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CACHE TABLES

These tables store cached data results for each Archived Report run.

Note that most cache tables contain data which is not visible in report output, but which is required to be stored for the purpose of drilldown (child report) functionality. For example, SiteID uniqueidentifiers may not be shown, but are required in the cached data to allow the drilldown report (child report) to use the same Site Collection filter as the parent report.

Some cache tables will contain data not used. For example, The MonthLabel field is used for all “Monthly Growth” reports. Cache tables must provide a one-to-one mapping for all fields with the corresponding report stored procedure. Since “Daily Growth” and “Weekly Growth” reports share the same stored procedures, they must also provide a field for MonthLabel, even though this data is meaningless for “Daily Growth” and “Weekly Growth” reports. In this way, the total number of stored procedures is considerably reduced.

RptCacheActivity

This table stores cached data for any Archived Reports created using the Report “Specific Document Activity”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
LoginName	nvarchar (512)	The login name
DisplayName	nvarchar (512)	The display name
Occurred	datetime	Timestamp indicating when the activity took place
Url	nvarchar (512)	Url of the object
AuditEvent	nvarchar (512)	The type of event, eg View, Delete, CheckOut
SiteID	uniqueidentifier	The Site Collection identifier
ItemType	nvarchar (512)	The type of object, eg Web, File, Folder
SearchQuery	nvarchar (512)	The search query
SearchScope	nvarchar (512)	The search scope

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RptCacheActivityByHour

This table stores cached data for the Archived Report “Site Activity”, located in the Site category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
ExcludeImages	int	Whether images where excluded
ExcludeSystemFiles	int	Whether system files where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Actions	bigint	The number of events
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheContentCreators

This table stores cached data for the Archived Report “Content Creators”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar	The Site Collection identifier
WebId	int	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
StartDate	nvarchar (512)	The reporting start date
EndDate	nvarchar (512)	The reporting end date
ContentCreated	bigint	Number of items created
UserId	int	The userId
LoginName	nvarchar (512)	The login name
DisplayName	nvarchar (512)	The display name

RptCacheContentDatabases

This table stores cached data for the Archived Report “Content Databases”, located in the Storage category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
DBName	nvarchar (512)	The name of the Content Database
Server	nvarchar (512)	The name of the Server
WebApplication	nvarchar (512)	The name of the Web Application
DiskSizeRequired	bigint	The number of bytes required to stored documents
DiskSizeRequiredMB	decimal (38, 6)	The number of MBs required to stored documents
DiskSpaceRequired	nvarchar (512)	Textual display with units, eg 256.75MB
MaximumSiteCount	int	The maximum site count

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RptCacheContentDatabases

WarningSiteCount	int	The warning site count

RptCacheDBContentCreatorGrowthDaily

This table stores cached data for the Archived Report “Content Creator Daily Growth”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Users	bigint	The number of users
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

RptCacheDBContentCreatorGrowthMonthly

This table stores cached data for the Archived Report “Content Creator Monthly Growth”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Users	bigint	Number of users who have created content

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RptCacheDBContentCreatorGrowthMonthly

StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month

RptCacheDBContentCreatorGrowthWeekly

This table stores cached data for the Archived Report “Content Creator Weekly Growth”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Users	bigint	Number of users who have created content
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

RptCacheDBContentDatabaseGrowthMonthly

This table stores cached data for the Archived Report “Content Database Monthly Growth”, located in the Storage category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
FarmId	int	The Farm identifier
Offset	int	Minutes offset between UTC and LocalTime

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RptCacheDBContentDatabaseGrowthMonthly

IntervalInMinutes	int	The time interval by which results were grouped
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month
DiskSizeRequired	decimal (38,6)	Bytes required to backup database
DiskSizeRequiredDisplay	nvarchar (512)	Textual display with units, eg 2.36GB

RptCacheDBDiscussionBoards

This table stores cached data for the Archived Report “Discussion Boards”, located in the Lists & Discussions category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
ExcludeDeletedLists	int	Whether deleted lists where excluded
ExcludeDeletedItems	int	Whether deleted list items where excluded
Web	nvarchar (512)	The title of the Team Site
Lists	bigint	The number of lists
ListItems	bigint	The number of list items
SiteId	uniqueidentifier	The Site Collection identifier
WebId	uniqueidentifier	The Team Site identifier

RptCacheDBDocumentCollaborationGrowthDaily

This table stores cached data for the Archived Report “Multiple Authors Daily Growth”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier

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RptCacheDBDocumentCollaborationGrowthDaily

WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Updates	bigint	The number of documents updated
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

RptCacheDBDocumentCollaborationGrowthMonthly

This table stores cached data for the Archived Report “Multiple Authors Monthly Growth”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Updates	bigint	The number of updates
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month

RptCacheDBDocumentCollaborationGrowthWeekly

This table stores cached data for the Archived Report “Multiple Authors Weekly Growth”, located in the Documents category.

Column	Type	Description

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RptCacheDBDocumentCollaborationGrowthWeekly

ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Updates	bigint	The number of updates
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

RptCacheDBDocumentGrowthDaily

This table stores cached data for the Archived Report “Daily Growth”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Documents	bigint	The number of documents
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDBDocumentGrowthMonthly

This table stores cached data for the Archived Report “Monthly Growth”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Documents	bigint	The number of documents
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month

RptCacheDBDocumentGrowthWeekly

This table stores cached data for the Archived Report “Weekly Growth”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Documents	bigint	The number of documents
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDBDocumentStorageGrowthDaily

This table stores cached data for the Archived Report “Document Storage Daily Growth”, located in the Storage category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report
DiskSizeRequired	decimal (38,6)	The number of Mb required to stored documents
DiskSizeRequiredDisplay	nvarchar (512)	Textual display with units, eg 256.75MB

RptCacheDBDocumentStorageGrowthMonthly

This table stores cached data for the Archived Report “Document Storage Monthly Growth”, located in the Storage category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
StartDate	datetime	The reporting start date

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RptCacheDBDocumentStorageGrowthMonthly

EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month
DiskSizeRequired	decimal (38,6)	The number of Mb required to stored documents
DiskSizeRequiredDisplay	nvarchar (512)	Textual display with units, eg 256.75MB

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RptCacheDBDocumentStorageGrowthWeekly

This table stores cached data for the Archived Report “Document Storage Weekly Growth”, located in the Storage category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report
DiskSizeRequired	decimal (38,6)	The number of Mb required to stored documents
DiskSizeRequiredDisplay	nvarchar (512)	Textual display with units, eg 256.75MB

RptCacheDBDocumentViewsVersusUpdates

This table stores cached data for the Archived Report “Total Views vs Updates”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
ActionType	nvarchar (1024)	The action type, eg view or update
Events	int	The number of events

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RptCacheDBListGrowthDaily

This table stores cached data for the Archived Report “List Daily Growth”, located in the Lists & Discussions category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
ExcludeDeletedLists	int	Whether deleted lists where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
ListsCreated	bigint	The number of lists created
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDBListGrowthMonthly

This table stores cached data for the Archived Report “List Monthly Growth”, located in the Lists & Discussions category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
ExcludeDeletedLists	int	Whether deleted lists where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
ListsCreated	bigint	The number of lists created
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month

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RptCacheDBListGrowthWeekly

This table stores cached data for the Archived Report “List Weekly Growth”, located in the Lists & Discussions category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
ExcludeDeletedLists	int	Whether deleted lists where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
ListsCreated	bigint	The number of lists created
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

RptCacheDBSearchQueryGrowthDaily

This table stores cached data for the Archived Report “Queries Daily Growth”, located in the Search category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Searches	bigint	The number of searches
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDBSearchQueryGrowthMonthly

This table stores cached data for the Archived Report “Queries Monthly Growth”, located in the Search category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Searches	bigint	The number of searches
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month

RptCacheDBSearchQueryGrowthWeekly

This table stores cached data for the Archived Report “Queries Weekly Growth”, located in the Search category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Searches	bigint	The number of searches
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDBSearchUserGrowthDaily

This table stores cached data for the Archived Report “Unique Users Daily Growth”, located in the Search category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Searchers	bigint	The number of users implementing search
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

RptCacheDBSearchUserGrowthMonthly

This table stores cached data for the Archived Report “Unique Users Monthly Growth”, located in the Search category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Searchers	bigint	The number of users implementing search
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date

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RptCacheDBSearchUserGrowthMonthly

MonthLabel	nvarchar (512)	Name of the month

RptCacheDBSearchUserGrowthWeekly

This table stores cached data for the Archived Report “Unique Users Weekly Growth”, located in the Search category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Searchers	bigint	The number of users implementing search
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDBSummaryImplementationManager

This table stores cached data for the Archived Report "Implementation Manager", located in the Summary Statistics category. Note "Previous" values are used to generate comparison arrows in summary statistics webparts.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
UserTotalCount	bigint	Unique users active in last 30 days
UsersActiveLast24Hours	bigint	Unique users active in last 24 hours
UsersActiveLast7Days	bigint	Unique users active in last 7 days
UserTotalCountPrevious	bigint	Unique users active 30-60 days ago
UsersActiveLast24HoursPrevious	bigint	Unique users active 24-48 hours ago
UsersActiveLast7DaysPrevious	bigint	Unique users active 7-14 days ago
TeamSiteCount	bigint	Team sites in existence today
TeamSitesViewedLast30Days	bigint	Team sites viewed in last 30 days
TeamSitesModifiedLast30Days	bigint	Team sites modified in last 30 days
TeamSitesAvgSizeMB	decimal (38,2)	Average team site document volume
TeamSitesAvgAgeInDays	bigint	Average team site age as of today
TeamSiteCountPrevious	bigint	Team sites in existence yesterday
TeamSitesViewedLast30DaysPrevious	bigint	Team sites viewed 30-60 days ago
TeamSitesModifiedLast30DaysPrevious	bigint	Team sites modified 30-60 days ago
TeamSitesAvgSizeMBPrevious	decimal (38,2)	Average team site document volume yesterday
TeamSitesAvgAgeInDaysPrevious	bigint	Average team site age as of yesterday
MySiteCount	bigint	MySite in existence today
MySitesViewedLast30Days	bigint	MySite viewed in last 30 days
MySitesModifiedLast30Days	bigint	MySite modified in last 30 days
MySitesAvgSizeMB	decimal (38,2)	Average MySite document volume
MySitesAvgAgeInDays	bigint	Average MySite age as of today

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RptCacheDBSummaryImplementationManager

MySiteCountPrevious	bigint	MySite in existence yesterday
MySitesViewedLast30DaysPrevious	bigint	MySite viewed 30-60 days ago
MySitesModifiedLast30DaysPrevious	bigint	MySite modified 30-60 days ago
MySitesAvgSizeMBPrevious	decimal (38,2)	Average MySite document volume yesterday
MySitesAvgAgeInDaysPrevious	bigint	Average MySite age as of yesterday
DocumentCount	bigint	Number of documents today
DocumentsViewedLast30Days	bigint	Documents viewed in last 30 days
DocumentsModifiedLast30Days	bigint	Documents modified in last 30 days
DocumentsModifiedByMultipleUsers	bigint	Multiple author documents today
DocumentsAvgSizeMB	decimal (38,2)	Average document volume
DocumentCountPrevious	bigint	Number of documents yesterday
DocumentsViewedLast30DaysPrevious	bigint	Documents viewed 30-60 days ago
DocumentsModifiedLast30DaysPrevious	bigint	Documents modified 30-60 days ago
DocumentsModifiedByMultipleUsersPrevious	bigint	Multiple author documents yesterday
DocumentsAvgSizeMBPrevious	decimal (38,2)	Average document volume yesterday
DocsUpdatedLast30DaysMultipleUsers	bigint	Documents updated by multiple users last 30 days
DocsUpdatedLast30DaysMultipleUsersPrevious	bigint	Documents updated by multiple users 30-60 days ago
DocsUpdatedLast30Days	bigint	Documents updated in last 30 days
DocsUpdatedLast30DaysPrevious	bigint	Documents updated 30-60 days ago
PercentageCollaboration	decimal (38,2)	Percentage of updated documents with more than 1 author as of today
PercentageCollaborationPrevious	decimal (38,2)	Percentage of updated documents with more than 1 author as of yesterday
DocsViewedLast30DaysMultipleUsers	bigint	Documents viewed by multiple users last 30 days
DocsViewedLast30DaysMultipleUsersPrevious	bigint	Documents viewed by multiple users 30-60 days ago
DocsViewedLast30Days	bigint	Documents viewed in last 30 days

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RptCacheDBSummaryImplementationManager

DocsViewedLast30DaysPrevious	bigint	Documents viewed 30-60 days ago
PercentageContentUsefulness	decimal (38,2)	Percentage of viewed documents with more than 1 reader
PercentageContentUsefulnessPrevious	decimal (38,2)	Percentage of viewed documents with more than 1 reader as of yesterday

RptCacheDBSummaryITManager

This table stores cached data for the Archived Report “IT Manager”, located in the Summary Statistics category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
UserTotalCount	bigint	Unique users active in last 30 days
UsersActiveLast24Hours	bigint	Unique users active in last 24 hours
UsersActiveLast7Days	bigint	Unique users active in last 7 days
UserTotalCountPrevious	bigint	Unique users active 30-60 days ago
UsersActiveLast24HoursPrevious	bigint	Unique users active 24-48 hours ago
UsersActiveLast7DaysPrevious	bigint	Unique users active 7-14 days ago
TeamSiteCount	bigint	Team sites in existence today
TeamSitesViewedLast30Days	bigint	Team sites viewed in last 30 days
TeamSitesModifiedLast30Days	bigint	Team sites modified in last 30 days
TeamSitesAvgSizeMB	decimal (38,2)	Average team site document volume
TeamSitesAvgAgeInDays	bigint	Average team site age as of today
TeamSiteCountPrevious	bigint	Team sites in existence yesterday
TeamSitesViewedLast30DaysPrevious	bigint	Team sites viewed 30-60 days ago
TeamSitesModifiedLast30DaysPrevious	bigint	Team sites modified 30-60 days ago
TeamSitesAvgSizeMBPrevious	decimal (38,2)	Average team site document volume yesterday
TeamSitesAvgAgeInDaysPrevious	bigint	Average team site age as of yesterday

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RptCacheDBSummaryITManager

MySiteCount	bigint	MySite in existence today
MySitesViewedLast30Days	bigint	MySite viewed in last 30 days
MySitesModifiedLast30Days	bigint	MySite modified in last 30 days
MySitesAvgSizeMB	decimal (38,2)	Average MySite document volume
MySitesAvgAgeInDays	bigint	Average MySite age as of today
MySiteCountPrevious	bigint	MySite in existence yesterday
MySitesViewedLast30DaysPrevious	bigint	MySite viewed 30-60 days ago
MySitesModifiedLast30DaysPrevious	bigint	MySite modified 30-60 days ago
MySitesAvgSizeMBPrevious	decimal (38,2)	Average MySite document volume yesterday
MySitesAvgAgeInDaysPrevious	bigint	Average MySite age as of yesterday
StorageContentDatabaseCount	bigint	Number of content databases as of today
StorageContentDatabaseSizeMB	decimal (38,2)	Total size of content database in MB as of today
StorageContentDatabaseCountPrevious	bigint	Number of content databases as of yesterday
StorageContentDatabaseSizeMBPrevious	decimal (38,2)	Total size of content database in MB as of yesterday

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RptCacheDBSummaryKnowledgeManager

This table stores cached data for the Archived Report "Knowledge Manager", located in the Summary Statistics category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
UserTotalCount	bigint	Unique users active in last 30 days
UsersActiveLast24Hours	bigint	Unique users active in last 24 hours
UsersActiveLast7Days	bigint	Unique users active in last 7 days
UserTotalCountPrevious	bigint	Unique users active 30-60 days ago
UsersActiveLast24HoursPrevious	bigint	Unique users active 24-48 hours ago
UsersActiveLast7DaysPrevious	bigint	Unique users active 7-14 days ago
TeamSiteCount	bigint	Team sites in existence today
TeamSitesViewedLast30Days	bigint	Team sites viewed in last 30 days
TeamSitesModifiedLast30Days	bigint	Team sites modified in last 30 days
TeamSitesAvgSizeMB	decimal (38,2)	Average team site document volume
TeamSitesAvgAgeInDays	bigint	Average team site age as of today
TeamSiteCountPrevious	bigint	Team sites in existence yesterday
TeamSitesViewedLast30DaysPrevious	bigint	Team sites viewed 30-60 days ago
TeamSitesModifiedLast30DaysPrevious	bigint	Team sites modified 30-60 days ago
TeamSitesAvgSizeMBPrevious	decimal (38,2)	Average team site document volume yesterday
TeamSitesAvgAgeInDaysPrevious	bigint	Average team site age as of yesterday
MySiteCount	bigint	MySite in existence today
MySitesViewedLast30Days	bigint	MySite viewed in last 30 days
MySitesModifiedLast30Days	bigint	MySite modified in last 30 days
MySitesAvgSizeMB	decimal (38,2)	Average MySite document volume
MySitesAvgAgeInDays	bigint	Average MySite age as of today
MySiteCountPrevious	bigint	MySite in existence yesterday
MySitesViewedLast30DaysPrevious	bigint	MySite viewed 30-60 days ago

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RptCacheDBSummaryKnowledgeManager

MySitesModifiedLast30DaysPrevious	bigint	MySite modified 30-60 days ago
MySitesAvgSizeMBPrevious	decimal (38,2)	Average MySite document volume yesterday
MySitesAvgAgeInDaysPrevious	bigint	Average MySite age as of yesterday
DocumentCount	bigint	Number of documents today
DocumentsViewedLast30Days	bigint	Documents viewed in last 30 days
DocumentsModifiedLast30Days	bigint	Documents modified in last 30 days
DocumentsModifiedByMultipleUsers	bigint	Multiple author documents today
DocumentsAvgSizeMB	decimal (38,2)	Average document volume
DocumentCountPrevious	bigint	Number of documents yesterday
DocumentsViewedLast30DaysPrevious	bigint	Documents viewed 30-60 days ago
DocumentsModifiedLast30DaysPrevious	bigint	Documents modified 30-60 days ago
DocumentsModifiedByMultipleUsersPrevious	bigint	Multiple author documents yesterday
DocumentsAvgSizeMBPrevious	decimal (38,2)	Average document volume yesterday
DocsUpdatedLast30DaysMultipleUsers	bigint	Documents updated by multiple users last 30 days
DocsUpdatedLast30DaysMultipleUsersPrevious	bigint	Documents updated by multiple users 30-60 days ago
DocsUpdatedLast30Days	bigint	Documents updated in last 30 days
DocsUpdatedLast30DaysPrevious	bigint	Documents updated 30-60 days ago
PercentageCollaboration	decimal (38,2)	Percentage of updated documents with more than 1 author as of today
PercentageCollaborationPrevious	decimal (38,2)	Percentage of updated documents with more than 1 author as of yesterday
DocsViewedLast30DaysMultipleUsers	bigint	Documents viewed by multiple users last 30 days
DocsViewedLast30DaysMultipleUsersPrevious	bigint	Documents viewed by multiple users 30-60 days ago
DocsViewedLast30Days	bigint	Documents viewed in last 30 days
DocsViewedLast30DaysPrevious	bigint	Documents viewed 30-60 days ago

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RptCacheDBSummaryKnowledgeManager

PercentageContentUsefulness	decimal (38,2)	Percentage of viewed documents with more than 1 reader
PercentageContentUsefulnessPrevious	decimal (38,2)	Percentage of viewed documents with more than 1 reader as of yesterday

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RptCacheDBSummaryRecordsManager

This table stores cached data for the Archived Report “Records Manager”, located in the Summary Statistics category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
DocumentsAddedLast7Days	bigint	Documents created in last 7 days
DocumentsAddedLast30Days	bigint	Documents created in last 30 days
DocumentVolumeMB	decimal (38,2)	Document volume currently
AverageDocumentSizeMB	decimal (38,2)	Average document volume currently
DocumentsAddedLast7DaysPrevious	bigint	Documents created 7-14 days ago
DocumentsAddedLast30DaysPrevious	bigint	Documents created 30-60 days ago
DocumentVolumeMBPrevious	decimal (38,2)	Document volume yesterday
AverageDocumentSizeMBPrevious	bigint	Average document volume yesterday
UniqueContributersLast30Days	bigint	Unique contributers last 30 days
UniqueViewersLast30Days	bigint	Unique viewers last 30 days
UniqueContributersLast30DaysPrevious	bigint	Unique contributers 30-60 days ago
UniqueViewersLast30DaysPrevious	bigint	Unique viewers 30-60 days ago
DocumentCount	bigint	Document count currently
DocumentsInDraft	bigint	Documents in draft
DocumentsPublished	bigint	Documents published
PercentagePublished	decimal (38,2)	Percentage of documents published
DocumentCountPrevious	bigint	Document count yesterday
DocumentsInDraftPrevious	bigint	Documents in draft yesterday
DocumentsPublishedPrevious	bigint	Documents published as of yesterday
PercentagePublishedPrevious	decimal (38,2)	Percentage of documents published yesterday
MostUsedFileTypeByDocumentCount	nvarchar (512)	Most common file type by count
MostUsedFileTypeByTotalVolume	nvarchar (512)	Most common file type by volume
MostUsedFileTypeByDocumentCountPrevious	nvarchar (512)	Most common file type by count

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RptCacheDBSummaryRecordsManager

MostUsedFileTypeByTotalVolumePrevious	nvarchar (512)	Most common file type by volume

RptCacheDBSummarySearchManager

This table stores cached data for the Archived Report “Search Manager”, located in the Summary Statistics category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
UniqueSearchesLast24Hours	bigint	Unique searches in last 24 hours
UniqueSearchesLast24HoursPrevious	bigint	Unique searches 24-48 hours ago
TotalSearchesLast24Hours	bigint	Total searches last 24 hours
TotalSearchesLast24HoursPrevious	bigint	Total searches 24-48 hours ago
UniqueSearchesLast7Days	bigint	Unique searches last 7 days
UniqueSearchesLast7DaysPrevious	bigint	Unique searches 7-14 days ago
TotalSearchesLast7Days	bigint	Total searches last 7 days
TotalSearchesLast7DaysPrevious	bigint	Total searches 7-14 days ago
UniqueSearchesLast30Days	bigint	Unique searches last 30 days
UniqueSearchesLast30DaysPrevious	bigint	Unique searches 30-60 days
TotalSearchesLast30Days	bigint	Total searches last 30 days
TotalSearchesLast30DaysPrevious	bigint	Total searches 30-60 days ago
UniqueUsersLast24Hours	bigint	Unique users searching last 24 hours
UniqueUsersLast24HoursPrevious	bigint	Unique users searching 24-48 hours ago
UniqueUsersLast7Days	bigint	Unique users searching last 7 days
UniqueUsersLast7DaysPrevious	bigint	Unique users searching 7-14 days ago
UniqueUsersLast30Days	bigint	Unique users searching last 30 days
UniqueUsersLast30DaysPrevious	bigint	Unique users searching 30-60 days ago
TotalSiteUsers	bigint	Total site users currently
TotalSiteUsersPrevious	bigint	Total site users as of yesterday

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RptCacheDBSummarySearchManager

UsersWhoHaveSearched	bigint	Users who've searched in last 30 days
UsersWhoHaveSearchedPrevious	bigint	Users who've searched 30-60 days ago
PercentageOfUsersSearching	decimal (38,2)	Percentage of total users searching in last 30 days
PercentageOfUsersSearchingPrevious	decimal (38,2)	Percentage of total users searching 30-60 days ago
PercentageOfAllSitesSearches	decimal (38,2)	Percentage of "All Sites" scope searches in last 30 days
PercentageOfAllSitesSearchesPrevious	decimal (38,2)	Percentage of "All Sites" scope searches 30-60 days ago
PercentageOfPeopleSearches	decimal (38,2)	Percentage of "People" scope searches in last 30 days
PercentageOfPeopleSearchesPrevious	decimal (38,2)	Percentage of "People" scope searches 30-60 days ago
PercentageOfNoScopeSearches	decimal (38,2)	Percentage of non-scoped searches in last 30 days
PercentageOfNoScopeSearchesPrevious	decimal (38,2)	Percentage of non-scoped searches 30-60 days ago
PercentageOfOtherSearches	decimal (38,2)	Percentage of "Other" scope searches in last 30 days
PercentageOfOtherSearchesPrevious	decimal (38,2)	Percentage of "Other" scope searches 30-60 days ago
UniqueSearchScopes	bigint	Unique search scopes last 30 days
UniqueSearchScopesPrevious	bigint	Unique search scopes 30-60 days ago

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RptCacheDBSummarySystemAdministrator

This table stores cached data for the Archived Report “System Administrator”, located in the Summary Statistics category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
UserTotalCount	bigint	Unique users active in last 30 days
UsersActiveLast24Hours	bigint	Unique users active in last 24 hours
UsersActiveLast7Days	bigint	Unique users active in last 7 days
UserTotalCountPrevious	bigint	Unique users active 30-60 days ago
UsersActiveLast24HoursPrevious	bigint	Unique users active 24-48 hours ago
UsersActiveLast7DaysPrevious	bigint	Unique users active 7-14 days ago
TeamSiteCount	bigint	Team sites in existence today
TeamSitesViewedLast30Days	bigint	Team sites viewed in last 30 days
TeamSitesModifiedLast30Days	bigint	Team sites modified in last 30 days
TeamSitesAvgSizeMB	decimal (38,2)	Average team site document volume
TeamSitesAvgAgeInDays	bigint	Average team site age as of today
TeamSiteCountPrevious	bigint	Team sites in existence yesterday
TeamSitesViewedLast30DaysPrevious	bigint	Team sites viewed 30-60 days ago
TeamSitesModifiedLast30DaysPrevious	bigint	Team sites modified 30-60 days ago
TeamSitesAvgSizeMBPrevious	decimal (38,2)	Average team site document volume yesterday
TeamSitesAvgAgeInDaysPrevious	bigint	Average team site age as of yesterday
MySiteCount	bigint	MySite in existence today
MySitesViewedLast30Days	bigint	MySite viewed in last 30 days
MySitesModifiedLast30Days	bigint	MySite modified in last 30 days
MySitesAvgSizeMB	decimal (38,2)	Average MySite document volume
MySitesAvgAgeInDays	bigint	Average MySite age as of today
MySiteCountPrevious	bigint	MySite in existence yesterday
MySitesViewedLast30DaysPrevious	bigint	MySite viewed 30-60 days ago

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RptCacheDBSummarySystemAdministrator

MySitesModifiedLast30DaysPrevious	bigint	MySite modified 30-60 days ago
MySitesAvgSizeMBPrevious	decimal (38,2)	Average MySite document volume yesterday
MySitesAvgAgeInDaysPrevious	bigint	Average MySite age as of yesterday
ListCount	bigint	Number of Lists currently
ListLargestByListItems	nvarchar (512)	The List with the most List Items currently
ListLargestTeamSiteURL	nvarchar (512)	Url of the largest Team Site with the most List Items currently
ListCountPrevious	bigint	Number of Lists as of yesterday
ListLargestByListItemsPrevious	nvarchar (512)	The List with the most List Items yesterday
ListLargestTeamSiteURLPrevious	nvarchar (512)	Url of the largest Team Site with the most List Items as of yesterday
DocumentCount	bigint	Number of documents today
DocumentsViewedLast30Days	bigint	Documents viewed in last 30 days
DocumentsModifiedLast30Days	bigint	Documents modified in last 30 days
DocumentsModifiedByMultipleUsers	bigint	Multiple author documents today
DocumentsAvgSizeMB	decimal (38,2)	Average document volume
DocumentCountPrevious	bigint	Number of documents yesterday
DocumentsViewedLast30DaysPrevious	bigint	Documents viewed 30-60 days ago
DocumentsModifiedLast30DaysPrevious	bigint	Documents modified 30-60 days ago
DocumentsModifiedByMultipleUsersPrevious	bigint	Multiple author documents yesterday
DocumentsAvgSizeMBPrevious	decimal (38,2)	Average document volume yesterday
StorageContentDatabaseCount	bigint	Number of content databases as of today
StorageContentDatabaseSizeMB	decimal (38,2)	Total size of content database in MB as of today
StorageContentDatabaseCountPrevious	bigint	Number of content databases as of yesterday
StorageContentDatabaseSizeMBPrevious	decimal (38,2)	Total size of content database in MB as of yesterday

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RptCacheDBSummaryTeamSite

This table stores cached data for any Archived Reports created using the Report “Team Site Summary”, located in the Summary Statistics category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
UserTotalCount	bigint	Unique users active in last 30 days
UsersActiveLast24Hours	bigint	Unique users active in last 24 hours
UsersActiveLast7Days	bigint	Unique users active in last 7 days
UserTotalCountPrevious	bigint	Unique users active 30-60 days ago
UsersActiveLast24HoursPrevious	bigint	Unique users active 24-48 hours ago
UsersActiveLast7DaysPrevious	bigint	Unique users active 7-14 days ago
TeamSiteAgeInDays	int	Average team site age as of today
TeamSiteAgeInDaysPrevious	int	Average team site age as of yesterday
DaysSinceLastView	bigint	Days since the team site was last viewed
DaysSinceLastViewPrevious	bigint	Days since the team site was last viewed
DaysSinceLastUpdate	int	Days since the team site was last modified
DaysSinceLastUpdatePrevious	int	Days since the team site was last modified
DocumentCount	bigint	Number of documents today
DocumentsSizeMB	decimal (38,2)	Total size of documents in the Team Site today
DocumentsAvgSizeMB	decimal (38,2)	Average size of documents in the Team Site today
DocumentCountPrevious	bigint	Number of documents as of yesterday
DocumentsSizeMBPrevious	decimal (38,2)	Total size of documents in the Team Site as of yesterday
DocumentsAvgSizeMBPrevious	decimal (38,2)	Average size of documents in the Team Site as of yesterday
DocumentsViewedLast30Days	bigint	Documents viewed in last 30 days

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RptCacheDBSummaryTeamSite

DocumentsModifiedLast30Days	bigint	Documents modified in last 30 days
DocumentsModifiedByMultipleUsers	bigint	Multiple author documents today
DocumentsViewedByMultipleUsers	bigint	Documents viewed by multiple users today
DocumentsViewedLast30DaysPrevious	bigint	Documents viewed 30-60 days ago
DocumentsModifiedLast30DaysPrevious	bigint	Documents modified 30-60 days ago
DocumentsModifiedByMultipleUsersPrevious	bigint	Multiple author documents yesterday
DocumentsViewedByMultipleUsersPrevious	bigint	Documents viewed by multiple users as of yesterday

RptCacheDBTeamSiteGrowthDaily

This table stores cached data for the Archived Report “Team Site Daily Growth”, located in the Site category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
ExcludeDeletedWebs	int	Whether deleted team sites where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
SitesCreated	bigint	The number of Team Sites created
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDBTeamSiteGrowthMonthly

This table stores cached data for the Archived Report “Team Site Monthly Growth”, located in the Site category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
ExcludeDeletedWebs	int	Whether deleted team sites where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
SitesCreated	bigint	The number of Team Sites created
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month

RptCacheDBTeamSiteGrowthWeekly

This table stores cached data for the Archived Report “Team Site Weekly Growth”, located in the Site category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
ExcludeDeletedWebs	int	Whether deleted team sites where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
SitesCreated	bigint	The number of Team Sites created
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDBTeamSitePopularity

This table stores cached data for the Archived Report “Most Popular Sites”, located in the Activity category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteID	uniqueidentifier	The Site Collection identifier
WebID	uniqueidentifier	The Team Site identifier
ExcludeImages	int	Whether images where excluded
ExcludeSystemFiles	int	Whether system files where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Events	bigint	The number of events
Web	nvarchar (512)	The title of the Team Site
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDBUniqueUserGrowthDaily

This table stores cached data for the Archived Report “Unique User Daily Growth”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Users	bigint	The number of users
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

RptCacheDBUniqueUserGrowthMonthly

This table stores cached data for the Archived Report “Unique User Monthly Growth”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Users	bigint	The number of users
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month

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RptCacheDBUniqueUserGrowthWeekly

This table stores cached data for the Archived Report “Unique User Weekly Growth”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Users	bigint	The number of users
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

RptCacheDBUsefulDocumentsGrowthDaily

This table stores cached data for the Archived Report “Shared Daily Growth”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Views	bigint	The number of views
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDBUsefulDocumentsGrowthMonthly

This table stores cached data for the Archived Report “Shared Monthly Growth”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Views	bigint	The number of views
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month

RptCacheDBUsefulDocumentsGrowthWeekly

This table stores cached data for the Archived Report “Shared Weekly Growth”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Views	bigint	The number of views
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDocumentCountChange

This table stores cached data for the Archived Reports “Movements Past Week” and “Movements Past Month”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	uniqueidentifier	The Site Collection identifier
WebId	uniqueidentifier	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
Web	nvarchar (512)	The title of the Team Site
DocumentsBase	bigint	The number of documents at the start
DocumentsCompare	bigint	The number of documents at the end
ChangeAbsolute	bigint	The change in the number of documents
ChangeRelative	decimal (38,2)	The percentage change in documents
ChangeRelativeDisplay	nvarchar (512)	Textual display with units, eg 26%

RptCacheDocumentDownloadsByHour

This table stores cached data for the Archived Report “Downloads”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Downloads	bigint	The number of downloads
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheDocumentFileTypes

This table stores cached data for the Archived Report "File Types", located in the Storage category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
FileType	nvarchar (512)	The type of file, eg pdf, doc, docx
Files	bigint	The number of files
TotalLength	bigint	The total number of bytes
FileTypeLookup	int	The numeric file type
VolumeKb	decimal (38,2)	The total number of Kbs
FileSize	nvarchar (512)	Textual display with units, eg 35Mb
SiteId	uniqueidentifier	The Site Collection identifier
WebId	uniqueidentifier	The Team Site identifier

RptCacheDocumentPublicationLevel

This table stores cached data for the Archived Report "Publication", located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
ExcludeDeletedFiles	int	Whether deleted files where excluded
PublicationLevel	nvarchar (255)	The numeric publication level
LevelName	nvarchar (512)	The publication level name, eg checkout, publish
Documents	bigint	The number of documents
Percentage	decimal (38,2)	The percentage of total documents
PercentageString	nvarchar (512)	Textual display with units, eg 85.50%
SiteId	uniqueidentifier	The Site Collection identifier
WebId	uniqueidentifier	The Team Site identifier

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RptCacheDocumentsInDraft

This table stores cached data for the Archived Report "In Draft", located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	uniqueidentifier	The Site Collection identifier
WebId	uniqueidentifier	The Team Site identifier
DisplayName	nvarchar (512)	The name of the document
Created	datetime	The date the document was created
MajorVersion	nvarchar (255)	The document's major version
MinorVersion	nvarchar (255)	The document's minor version
Web	nvarchar (512)	The title of the Team Site
ServerRelativeUrl	nvarchar (512)	The Url of the document

RptCacheDocumentsUnpublished

This table stores cached data for the Archived Report "Unpublished", located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
DisplayName	nvarchar (512)	The name of the document
Created	datetime	The date the document was created
MajorVersion	nvarchar (255)	The document's major version
MinorVersion	nvarchar (255)	The document's minor version
Web	nvarchar (512)	The title of the Team Site
SiteId	uniqueidentifier	The Site Collection identifier
WebId	uniqueidentifier	The Team Site identifier

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RptCacheHighestContributer

This table stores cached data for the Archived Report “Contributers”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
UserID	int	The User Id
LoginName	nvarchar (512)	The login name
DisplayName	nvarchar (512)	The display name
NoCheckin	int	The number of checkins
NoDelete	int	The number of deletes
NoUpdate	int	The number of updates
NoUndelete	int	The number of undeletes
NoMove	int	The number of moves
Total	int	The total number of events

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RptCacheItemHistory

This table stores cached data for any Archived Reports created using the Report “Item History”, located in the Activity category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
LoginName	nvarchar (512)	The login name
DisplayName	nvarchar (512)	The display name
Occurred	datetime	When the event occurred
Url	nvarchar (512)	Url of the item
AuditEvent	nvarchar (512)	The type of event, eg view, update, checkout
SiteID	uniqueidentifier	The Site Collection identifier
ItemType	nvarchar (512)	The type of item, eg list, document, team site
SearchQuery	nvarchar (512)	The search query
SearchScope	nvarchar (512)	The search scope

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RptCacheListCountChange

This table stores cached data for the Archived Reports “Movements Last Week” and “Movements Last Month”, located in the Lists & Discussions category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	uniqueidentifier	The Site Collection identifier
WebId	uniqueidentifier	The Team Site identifier
Offset	int	Minutes offset between UTC and LocalTime
Web	nvarchar (512)	The title of the Team Site
ListsBase	bigint	The number of lists at the start of the period
ListsCompare	bigint	The number of lists at the end of the period
ChangeAbsolute	bigint	The change in the number of lists
ChangeRelative	decimal (38,2)	The percentage change in the number of lists
ChangeRelativeDisplay	nvarchar (512)	Textual display with units, eg 15.75%

RptCacheListCreators

This table stores cached data for the Archived Report “List Creators”, located in the Lists & Discussions category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
ExcludeDeletedLists	int	Whether deleted lists where excluded
ShowNonzeroOnly	int	Whether to include non-zero results only
ListsCreated	bigint	The number of lists created
UserId	int	The User Id
LoginName	nvarchar (512)	The login name
DisplayName	nvarchar (512)	The display name

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RptCacheMgmtSiteAuditSettings

This table stores cached data for the Archived Report “Site Audit Settings”, located in the Management category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteTitle	nvarchar (512)	The title of the Site Collection
AuditMaskType	nvarchar (512)	The type of audit mask, eg checkout, view
AuditingEnabled	nvarchar (512)	Whether or not the type of mask is enabled
Occurred	datetime	When the audit setting change occurred

RptCacheMostActiveUserBySite

This table stores cached data for the Archived Report “Most Active”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
Events	bigint	The number of events
LoginName	nvarchar (512)	The login name
DisplayName	nvarchar (512)	The display name

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RptCacheMostPopularDocumentBySite

This table stores cached data for the Archived Report “Popularity”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
ExcludeDeletedFiles	int	Whether deleted files where excluded
Offset	int	Minutes offset between UTC and LocalTime
ObjectID	bigint	The object identifier
FileName	nvarchar (512)	The file name
Actions	bigint	The number of actions
Url	nvarchar (512)	The Url of the document
SPSiteGuid	uniqueidentifier	The document’s Site Collection identifier
SPWebGuid	uniqueidentifier	The document’s Team Site identifier

RptCacheMySiteLastAccess

This table stores cached data for the Archived Report “Latest MySites Activity”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteID	uniqueidentifier	The Site Collection identifier
WebID	uniqueidentifier	The Team Site identifier
Web	nvarchar (512)	The title of the Team Site
LastAction	datetime	TimeStamp indicating last action

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RptCachePerfCustomReport

This table stores cached data for the Archived Reports “CPU Usage” and “Total Memory Usage”, located in the Performance category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
WatchName	nvarchar (512)	The watch name
ComputerID	int	The computer identifier
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting start date
CounterValue	decimal (16,2)	The counter value
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped

RptCacheSearchQueries

This table stores cached data for the Archived Report “Most Popular Query”, located in the Search category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
SearchQuery	nvarchar (512)	The search query
SearchScope	nvarchar (512)	The search scope
Searches	bigint	The number of searches

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RptCacheSearchQueryUsers

This table stores cached data for the Archived Report “Most Active Users”, located in the Search category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
ShowNonzeroOnly	int	Whether to include non-zero results only
Searchers	bigint	The number of searches
UserId	int	The User Id
LoginName	nvarchar (512)	The login name
DisplayName	nvarchar (512)	The display name

RptCacheSearchScopes

This table stores cached data for the Archived Report “Search Scopes”, located in the Search category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
SearchScope	nvarchar (512)	The search scope
Searches	bigint	The number of searches

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RptCacheSiteCollectionSize

This table stores cached data for the Archived Report “Site Collection Size”, located in the Site category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	uniqueidentifier	The Site Collection identifier
ObjectID	bigint	FK, see DimSPSites
ExcludeDeletedFiles	int	Whether deleted files where excluded
Site	nvarchar (512)	The title of the Site Collection
Files	bigint	The number of files
FilesRelative	decimal (38,2)	The percentage of files
FilesRelativeDisplay	nvarchar (512)	Textual display of percentage of files with units, eg 7.95%
Size	bigint	The number of bytes
SizeRelative	decimal (38,2)	The percentage of total bytes
SizeRelativeDisplay	nvarchar (512)	Textual display of percentage of bytes with units, eg 3.24%
SizeDisplay	nvarchar (512)	Textual display with number of bytes with units, eg 2.36GB

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RptCacheSpecificDocument

This table stores cached data for any Archived Reports created using the Report “Specific Document”, located in the Documents category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
LoginName	nvarchar (512)	The login name
DisplayName	nvarchar (512)	The display name
Occurred	datetime	TimeStamp indicating when the event occurred
Url	nvarchar (512)	The Url of the item
AuditEvent	nvarchar (512)	The type of event, eg view, delete, checkout
SiteID	uniqueidentifier	The Site Collection identifier
ItemType	nvarchar (512)	The type of item, eg List, File, Web
SearchQuery	nvarchar (512)	The search query
SearchScope	nvarchar (512)	The search scope

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RptCacheSpecificUserAudit

This table stores cached data for any Archived Reports created using the Report “Specific User Audit”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
LoginName	nvarchar (512)	The login name
DisplayName	nvarchar (512)	The display name
Occurred	datetime	TimeStamp indicating when the event occurred
Url	nvarchar (512)	The Url of the item
AuditEvent	nvarchar (512)	The type of event, eg view, delete, checkout
SiteID	uniqueidentifier	The Site Collection identifier
ItemType	nvarchar (512)	The type of item, eg List, File, Web
SearchQuery	nvarchar (512)	The search query
SearchScope	nvarchar (512)	The search scope

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RptCacheTeamSiteDocuments

This table stores cached data for the Archived Report “Team Site Documents”, located in the Site category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	uniqueidentifier	The Site Collection identifier
WebId	uniqueidentifier	The Team Site identifier
WID	bigint	The application generated Team Site identifier
ExcludeDeletedFiles	int	Whether deleted files where excluded
Web	nvarchar (512)	The title of the Team Site
Files	bigint	The number of files
FilesRelative	decimal (38,2)	The percentage of files
FilesRelativeDisplay	nvarchar (512)	Textual display of percentage of files with units, eg 7.95%
Size	bigint	The number of bytes
SizeRelative	decimal (38,2)	The percentage of total bytes
SizeRelativeDisplay	nvarchar (512)	Textual display of percentage of bytes with units, eg 3.24%
SizeDisplay	nvarchar (512)	Textual display with number of bytes with units, eg 2.36GB

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RptCacheTeamSiteLastAccess

This table stores cached data for the Archived Report “Latest Team Site Activity”, located in the Activity category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	uniqueidentifier	The Site Collection identifier
WebId	uniqueidentifier	The Team Site identifier
SiteCollection	nvarchar (512)	The title of the Site Collection
Web	nvarchar (512)	The title of the Team Site
ServerRelativeURL	nvarchar (512)	The server relative Url of the team site
Created	datetime	Date when the Team Site was created
LastViewed	datetime	Date when the Team Site was last viewed
LastModified	datetime	Date when the Team Site was last modified
DaysSinceLastView	int	Days since the last view
DaysSinceLastModification	int	Days since the last modification

RptCacheTeamSiteLists

This table stores cached data for the Archived Report “Team Site Lists”, located in the Site category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteID	uniqueidentifier	The Site Collection identifier
WebID	uniqueidentifier	The Team Site identifier
SiteCollection	nvarchar (512)	The title of the Site Collection
Web	nvarchar (512)	The title of the Team Site
ServerRelativeUrl	nvarchar (512)	The server relative Url of the team site
TotalLists	bigint	The number of lists
TotalListItems	bigint	The number of list items

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RptCacheTeamSiteSize

This table stores cached data for the Archived Report “Team Site Size”, located in the Site category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	uniqueidentifier	The Site Collection identifier
WebId	uniqueidentifier	The Team Site identifier
WID	bigint	The application generated Team Site identifier
ExcludeDeletedFiles	int	Whether deleted files where excluded
Web	nvarchar (512)	The title of the team site
Files	bigint	The number of files
FilesRelative	decimal (38,2)	The percentage of files
FilesRelativeDisplay	nvarchar (512)	Textual display of percentage of file with units, eg 11.35%
Size	bigint	The number of bytes
SizeRelative	decimal (38,2)	The percentage of total bytes
SizeRelativeDisplay	nvarchar (512)	Textual display of percentage of bytes with units, eg 3.24%
SizeDisplay	nvarchar (512)	Textual display with number of bytes with units, eg 2.36GB

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RptCacheTotalUserActivity

This table stores cached data for the Archived Report “Total User Activity”, located in the Activity category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
ExcludeImages	int	Whether images where excluded
ExcludeSystemFiles	int	Whether system files where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Events	bigint	The number of events
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report
UserId	int	The user Id
LoginName	nvarchar (512)	The login name
DisplayName	nvarchar (512)	The display name

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RptCacheUniqueUsersByHour

This table stores cached data for the Archived Report “Hourly”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
ExcludeImages	int	Whether images where excluded
ExcludeSystemFiles	int	Whether system files where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Users	bigint	The number of unique users
Actions	bigint	The number of events
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

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RptCacheUserActivities

This table stores cached data for the Archived Reports “User Activities”, “User Activities Last Week” and “User Activities Last Month”, located in the Activity category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
SiteId	nvarchar (512)	The Site Collection identifier
WebId	nvarchar (512)	The Team Site identifier
ExcludeImages	int	Whether images where excluded
ExcludeSystemFiles	int	Whether system files where excluded
Offset	int	Minutes offset between UTC and LocalTime
IntervalInMinutes	int	The time interval by which results were grouped
Users	bigint	The number of unique users
Actions	bigint	The number of events
StartDate	datetime	The reporting start date
EndDate	datetime	The reporting end date
MonthLabel	nvarchar (512)	Name of the month; not in use for this report

RptCacheUserLastAccess

This table stores cached data for the Archived Report “Latest Activity”, located in the User category.

Column	Type	Description
ResultId	int identity	PK
ReportExecutionInstanceId	int	FK, see ReportExecutions
UserID	int	The User identifier
LastAction	datetime	TimeStamp indicating the last time the user generate an event
DisplayName	nvarchar (512)	The user’s display name

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DATA WAREHOUSE DATABASE

This section describes the database tables used to store data from the Collectors, and also lookup table data.

CONFIGURATION TABLES

These tables store system configuration information.

CfgContentDBSPChangeCollectionTime

Description goes here...

Column	Type	Description
ContentDBID	int	PK
LastSPChangeCollected	datetime	The datestamp of the last change for the Content Database.

CfgLastCrawlWalkEnd

This table holds data for automated internal testing.

Column	Type	Description
LastCrawlWalkEnd	datetime	

CfgSiteSPChangeCollectionTime

Description goes here...

Column	Type	Description
SiteID	bigint	FK, see DimSPSites
LastSPChangeCollected	datetime	The datestamp of the last change for the Site Collection.

CfgVersion

This table holds the database version information.

Column	Type	Description
Version	Nvarchar (50)	The current version of the Data Warehouse

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WAREHOUSE TABLES

These tables store lookup data and data retrieved by Collectors.

DimAttibuteAudit

This table holds individual column changes that have occurred in the SharePoint dimension tables.

Column	Type	Description
ObjectID	bigint	FK, refers to an obects Identity column value
ObjectTypeID	tinyint	FK, see LookupAuditItemType
ColumnName	nvarchar (50)	The name of the column which has changed
Occurred	datetime	Datetime the change occurred
ValueString	nvarchar (1024)	The initial string value before the change, if the column's datatype is string
ValueInt	bigint	The initial string value before the change, if the column's datatype is int
ValueDatetime	datetime	The initial string value before the change, if the column's datatype is datetime

DimDeleteAttributeAudit

This tables holds delete and undeleted actions for SharePoint dimension table objects.

Column	Type	Description
ObjectID	bigint	FK, refers to an obects Identity column value
ObjectTypeID	tinyint	FK, see LookupAuditItemType
Occurred	datetime	Datetime the deletion/undeletion occurred
Deleted	bit	Whether the action was a delete or undelete

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DimIntAttibuteAudit

Reserved for future use.

Column	Type	Description
ObjectID	bigint	
ObjectTypeID	tinyint	
ColumnName	nvarchar (50)	
Occurred	datetime	
ColumnValue	bigint	

DimInterval

This table stores time intervals, allowing events to be assigned a timestamp.

Column	Type	Description
IntervalId	int identity	PK
StartDate	datetime	The start time for the interval

DimPerfCounters

This table holds Performance Counter values, retrieved by instances of the Performance Collector.

Column	Type	Description
WatchID	int	FK, see PerfCountersToWatch
Value	decimal (16,2)	The value of the Counter
Occurred	datetime	When the counter value occurred

DimSearchQuery

This table holds Search queries.

Column	Type	Description
SearchQueryId	int identity	PK
SearchQuery	nvarchar (512)	The search query

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DimSearchScope

This table holds Search scopes.

Column	Type	Description
SearchScopeId	int identity	PK
SearchScope	nvarchar (512)	The search scope

DimSPContentDatabases

This table holds Content Database information.

Column	Type	Description
SPContentDatabaseID	int identity	PK
SPContentDatabaseGuid	uniqueidentifier	The Guid for the Content Database
DatabaseName	nvarchar (256)	The database name
ServerName	nvarchar (256)	The server name
MaximumSiteCount	int	The maximum site collection count
WarningSiteCount	int	The warning site collection count
SPWebApplicationID	int	FK, see DimSPWebApplications

DimSPFarmFeatures

This table holds Farm Feature information.

Column	Type	Description
SPFarmID	smallint	FK, see DimSPFarms
SPFeatureID	int	FK, see DimSPFeatures

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DimSPFarms

This table holds Farm information.

Column	Type	Description
SPFarmID	smallint identity	PK
DisplayName	nvarchar (256)	The display name for the Farm
FarmGUID	uniqueidentifier	The Guid of the Farm

DimSPFarmSolutions

This table holds Farm Solution information.

Column	Type	Description
SPFarmID	smallint	FK, see DimSPFarms
SolutionGuid	uniqueidentifier	The Guid of the Solution
DisplayName	nvarchar (256)	The display name for the Solution

DimSPFeatures

This table holds Feature information

Column	Type	Description
SPFeatureID	int identity	PK
SPFeatureGuid	uniqueidentifier	The Guid of the Feature
DisplayName	nvarchar (256)	The display name for the Feature
SolutionGuid	uniqueidentifier	The Guid of the Solution

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DimSPFiles

This table holds File information.

Column	Type	Description
ObjectID	bigint identity	PK
SPFileGuid	uniqueidentifier	The Guid of the File
AuthorUserID	int	FK, see DimUsers
FileName	nvarchar (256)	The filename
Title	nvarchar (256)	The title of the file
ProgID	nvarchar (256)	Identifies the application in which the file was created
Url	nvarchar (512)	The server relative url
Created	datetime	The date when the file was created
ContentLastUpdated	datetime	The date when the file was last modified
ParentSPFolderID	bigint	FK, see DimSPFolders
ParentSPListItemID	bigint	FK, see DimSPListItems
FileTypeLookup	int	FK, see LookupFileTypes
ParentSPWebID	bigint	FK, see DimSPWebs
Deleted	bit	Whether the file has been deleted
PublicationLevel	tinyint	FK, see LookupPublicationLevel
IsAttachment	bit	Whether the file is an attachment
LastModifiedBy	int	FK, see DimUsers

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DimSPFileVersions

This table holds File Version information.

Column	Type	Description
SPFileID	bigint	FK, see DimSPFiles
Occurred	datetime	The date when this version was created
MinorVersion	smallint	The file's minor version
MajorVersion	smallint	The file's major version
PublicationLevel	tinyint	FK, see LookupPublicationLevel
AuthorUserID	int	FK, see DimUsers
Size	int	Size of the file in bytes
Deleted	bit	Whether the file was deleted at this version
IsCurrent	bit	Indicates if this record is a current record

DimSPFolders

This table holds Folder information.

Column	Type	Description
ObjectID	bigint identity	PK
SPFolderGuid	uniqueidentifier	The Guid of the Folder
DisplayName	nvarchar (256)	The folder's display name
Url	nvarchar (512)	The Folder's Url
ParentSPFolderID	bigint	FK, see DimSPFolders
ParentSPListID	bigint	FK, see DimSPLists
ParentSPWebID	bigint	FK, see DimSPWebs
Deleted	bit	

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DimSPListItems

This table holds List Item information.

Column	Type	Description
ObjectID	bigint identity	PK
SPListItemGuid	uniqueidentifier	The Guid of the List Item
AuthorUserId	int	FK, see DimUsers
ContentTypeLookup	int	FK, see LookupContentTypes
DisplayName	nvarchar (256)	The display name for the List Item
PublicationLevel	tinyint	FK, see LookupPublicationLevel
ParentSPListID	bigint	FK, see DimSPLists
ParentSPFolderId	bigint	FK, see DimSPFolders
Created	datetime	The date when the List Item was created
Deleted	bit	Whether the List Item has been deleted
LastUpdated	datetime	The date when the List Item was last updated
IsFolder	bit	
LastModifiedBy	int	FK, see DimUsers

DimSPListItemVersions

This table holds List Item Version information.

Column	Type	Description
SPListItemID	bigint	FK, see DimSPListItems
MinorVersion	smallint	The minor version of the List Item
MajorVersion	smallint	The major version of the List Item
Occurred	datetime	When the version was created
AuthorUserID	int	FK, see DimUsers
PublicationLevel	tinyint	FK, see LookupPublicationLevel
Deleted	bit	Whether the version has been deleted
IsCurrent	bit	Indicates if this is the current record

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DimSPLists

This table holds List information.

Column	Type	Description
ObjectID	bigint identity	PK
SPListGuid	uniqueidentifier	The Guid of the List
ParentSPWebID	bigint	FK, see DimSPWebs
AuthorUserID	int	FK, see DimUsers
Created	datetime	The date when the List was created
Url	nvarchar (512)	The Url of the List
Description	nvarchar (512)	The description for the List
EmailAlias	nvarchar (256)	The email address for email change notification
Title	nvarchar (256)	The title for the list
ListTemplateID	smallint	FK, see LookupListTemplateType
ListBaseTypeId	smallint	FK, see LookupListBaseType
ContentLastUpdated	datetime	The date when the List was last updated
Deleted	bit	Whether the List has been deleted

DimSPObjectsSites

This table holds metadata relating to all event objects.

Column	Type	Description
ObjectId	bigint	FK, see DimSPSites
ObjectTypeId	tinyint	FK, see LookupAuditItemType
SPSiteId	bigint	FK, see DimSPSites
SPWebId	bigint	FK, see DimSPWebs
Url	nvarchar (512)	The Site Url
SiteDeleted	bit	Whether the site has been deleted
WebDeleted	bit	Whether the web has been deleted

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DimSPSiteAuditingHistory

This table holds information regarding Audit flags enabled for each Site Collection.

Column	Type	Description
DimSPSiteAuditingHistoryId	bigint identity	PK
SiteId	bigint	FK, see DimSPSites
AuditMaskTypeId	int	FK, see LookupAuditMaskType
AuditingEnabled	bit	Whether auditing enable for this mask type
Occurred	datetime	Date when the mask type enabled or disabled

DimSPSiteFeatures

This table holds Site Feature information.

Column	Type	Description
SPSiteID	bigint	FK, see DimSPSites
SPFeatureID	int	FK, see DimSPFeatures

DimSPSites

This table holds Site information.

Column	Type	Description
ObjectID	bigint identity	PK
SPSiteGuid	uniqueidentifier	The Guid of the Site
OwnerUserID	int	FK, see DimUsers
SecondaryOwnerUserID	int	FK, see DimUsers
SPContentDatabaseID	int	FK, see DimSPContentDatabases
Url	nvarchar (512)	The Url of the Site
Title	nvarchar (256)	The title of the Site
Deleted	bit	Whether the Site has been deleted
ContentLastUpdated	datetime	Date when the Site was last updated

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DimSPSiteUsers

This table holds Site User information.

Column	Type	Description
SPSiteID	bigint	FK, see DimSPSites
UserID	int	FK, see DimUsers
DisplayName	nvarchar (256)	The display name for the User in this Site
Email	nvarchar (256)	The email address for the User in this Site
SPUserID	int	FK, see DimUsers

DimSPUnknownObjects

This table holds objects which have generated an audit event, but for which there is no other information. When information regarding a record is processed, the record is removed from this table and moved to the correct table, eg DimSPSites.

Column	Type	Description
ObjectID	bigint identity	PK
SPItemGuid	uniqueidentifier	The Guid of the item
SiteId	bigint	FK, see DimSPSites

DimSPWebApplicationFeatures

This table holds WebApplication Feature information.

Column	Type	Description
SPWebApplicationID	int	FK, see DimSPWebApplications.
SPFeatureID	int	FK, see DimSPFeatures.

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DimSPWebApplications

This table holds WebApplication information.

Column	Type	Description
SPWebApplicationID	int identity	PK
WebApplicationGUID	uniqueidentifier	The Guid of the Web Application
SPFarmId	smallint	FK, see DimSPFarms
DisplayName	nvarchar (256)	The display name for the WebApplication

DimSPWebFeatures

This table holds Web Feature information.

Column	Type	Description
SPWebID	bigint	FK, see DimSPWebs
SPFeatureID	int	FK, see DimSPFeatures

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DimSPWebs

This table holds Web information

Column	Type	Description
ObjectID	bigint identity	PK
SPWebGuid	uniqueidentifier	The Guid of the Web
AuthorUserID	int	FK, see DimUsers
Created	datetime	The date when the Web was created
Description	nvarchar (512)	The description of the Web
ParentWebID	bigint	FK, see DimSPWebs
Url	nvarchar (512)	The server relative url of the Web
Title	nvarchar (256)	The title of the Web
ParentSiteID	bigint	FK, see DimSPSites
WebTemplate	nvarchar (256)	The template used by the Web
Deleted	bit	Whether the Web has been deleted
ContentLastUpdated	datetime	The date the Web was last updated

DimStringAttributeAudit

Table reserved for future use.

Column	Type	Description
ObjectID	bigint	
ObjectTypeID	tinyint	
ColumnName	nvarchar (50)	
Occurred	datetime	
ColumnValue	nvarchar (1024)	

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DimUsers

This table holds User information.

Column	Type	Description
UserID	int identity	PK
LoginName	nvarchar (64)	The login name for the User
IsDomainGroup	bit	
IsSystemAccount	bit	Whether the User is a system account

FactAuditData

This table holds events raised by SharePoint. Most report data is derived from records in this table.

Column	Type	Description
ObjectID	bigint	FK, refers to an objects identity value
IntervalId	int	FK, see DimIntervals
TimeOffset	tinyint	Indicates the offset from the DimIntervals StartTime. Intervals are 5 minutes apart (300 seconds), and the tinyint data type allows 255 values. To calculate the time an Audit event occurred, use the following formula: DimIntervals.StartTime + (TimeOffset * 300/255) seconds
EventTypeId	tinyint	FK, see LookupEventType
UserId	int	FK, see DimUsers
EventSource	tinyint	
ObjectTypeID	tinyint	FK, see LookupAuditItemType

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FactSearchData

This table holds Search events. Data for Search category reports is derived from this table.

Column	Type	Description
ObjectID	bigint	FK, refers to an objects identity value
SearchQueryId	int	FK, see DimSearchQuery
SearchScopeId	int	FK, see DimSearchScope
IntervalId	int	FK, see DimIntervals
TimeOffset	tinyint	Indicates the offset from DimIntervals StartTime
UserId	int	FK, see DimUsers
EventSource	tinyint	
ObjectTypeID	tinyint	FK, see LookupAuditItemType

FactSPContentDatabaseSize

This table holds Content Database size information.

Column	Type	Description
SPContentDatabaseID	int	FK, see DimSPContentDatabases
Size	bigint	The size of the Content Database in bytes
Occurred	datetime	When the size was recorded
IsCurrent	bit	Indicates if this is the current record

LookupAuditItemType

This table holds AuditItem Type information.

Column	Type	Description
Key	smallint	PK
Value	nvarchar (16)	The Audit Item Type

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LookupAuditMaskType

This table holds AuditMask type information.

Column	Type	Description
AuditMaskTypeId	int	PK
AuditMaskTypeName	varchar (50)	The AuditMaskType name

LookupContentTypes

This table holds Content Type information.

Column	Type	Description
LookupValue	int identity	PK
ContentType	nvarchar (1024)	The ContentType identifier
Name	nvarchar (256)	The name of the content type

LookupEventType

This table holds Event Type information.

Column	Type	Description
LookupKey	int	PK
Value	nvarchar (32)	The name of the event, eg View, Checkout

LookupFileTypes

This table holds File Type information.

Column	Type	Description
LookupValue	int identity	PK
FileType	nvarchar (50)	The file type, eg Pdf, Doc
IsImage	bit	Whether the file type relates to an image
IsSystemFile	bit	Whether the file type relates to a system file

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LookupListBaseType

This table holds ListBase Type information.

Column	Type	Description
ListBaseTypeId	smallint	PK
ListBaseTypeName	nvarchar (50)	The List's base type

LookupListItemToExclude

This table holds FileExtension information, which is used by the Collector to exclude specific List Items.

Column	Type	Description
FileExtension	nvarchar (16)	A File Extension

LookupListTemplateType

This table holds ListTemplate Type information.

Column	Type	Description
ListTemplateTypeId	smallint	PK
ListTemplateTypeName	nvarchar (50)	The List's template type

LookupListToExclude

This table holds prefix information, which is used by the Collector to exclude specific Lists.

Column	Type	Description
ListPrefix	nvarchar (64)	A List Prefix

LookupPublicationLevel

This table holds Publication Level information.

Column	Type	Description
LookupKey	tinyint	PK
Value	nvarchar (10)	The publication level, eg Checkout, Draft

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LookupSystemAccounts

This table holds System Account information.

Column	Type	Description
LookupSystemAccountsId	bigint identity	PK
LoginName	nvarchar (255)	A login name, eg domain\username

PerfCategories

This table holds Categories used by the Performance Collector.

Column	Type	Description
ID	int identity	PK
ComputerID	int	FK, see PerfComputers
CategoryName	nvarchar (255)	The category name

PerfComputers

This table holds Computers used by the Performance Collector.

Column	Type	Description
ID	int identity	PK
ComputerName	nvarchar (255)	The computer name

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PerfCountersToWatch

This table holds Performance Counter information used by the Performance Collector.

Column	Type	Description
ID	int identity	PK
WatchName	nvarchar (255)	The watch name
ComputerID	int	FK, see PerfComputers
CategoryID	int	FK, see PerfCategories
InstanceID	int	FK, see PerfInstances
Often	int	How often the counter is checked, in milliseconds
WatchType	smallint	Watch type; reserved for future use
AvgLengthSecs	int	Number of seconds over which the values should averaged
CounterName	nvarchar (255)	The counter name

PerfInstances

This table holds Instance information, used by the Performance Collector.

Column	Type	Description
ID	int identity	PK
CategoryID	int	FK, see PerfCategories
InstanceName	nvarchar (255)	The instance name

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WSSCollectorAssignments

This table holds Collector assignments to determine which SharePoint audit records have been processed.

Column	Type	Description
FarmGuid	uniqueidentifier	The Guid for the farm
JobGuid	uniqueidentifier	The Guid for the Job
PeriodStartDate	datetime	The period start date
PeriodEndDate	datetime	The period end date
LastAction	datetime	The last date an action occurred

WSSCollectorAssignmentStatus

This table holds status information for the WSSCollector Assignments

Column	Type	Description
JobGuid	uniqueidentifier	The Guid for the Job
SiteGuid	uniqueidentifier	The Guid for the Site
CurrentPosition	int	The current position
Completed	bit	Whether or not the job has finished

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VIEWS

This section describes the database views used to store configuration information for Nintex Reporting at the farm level.

vwDocumentFiles

This view lists the Files which are in Document Libraries.

Column	Type	Description
ObjectID	bigint	FK, see DimSPFiles
Created	datetime	The date the file was created
AuthorUserID	int	FK, see DimUsers
Deleted	bit	Whether the file has been deleted
ListItemId	bigint	FK, see DimSPListItems
SPWebId	bigint	FK, see DimSPWebs
SPSiteId	bigint	FK, see DimSPSites
FileName	nvarchar (256)	The file name
Title	nvarchar (256)	The file title
Url	nvarchar (512)	The file url
FileType	nvarchar (50)	The file type, eg pdf, doc

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vwDocuments

This view lists the Files which are in Document Libraries.

Column	Type	Description
ObjectId	bigint	FK, see DimSPFiles
Created	datetime	The date the file was created
AuthorUserId	int	FK, see DimUsers
Deleted	bit	Whether the file has been deleted
SPWebId	bigint	FK, see DimSPWebs
SPSiteId	bigint	FK, see DimSPSites

vwFiles

This view lists Files and metadata relating to the type of file, eg Doc, Xls, Pdf.

Column	Type	Description
ObjectID	bigint	FK, see DimSPFiles
Deleted	bit	Whether the file has been deleted
IsImage	bit	Whether the file is an image type
IsSystemFile	bit	Whether the file is a system file type

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APPENDIXES

NINTEX REPORTING SUMMARY VIEW FORMATTER

OVERVIEW

Nintex Reporting 2008 ships with a Report Formatter that can be used by third party developers to produce summary statistics reports. The Summary View Formatter (SVF) Report Formatter was developed to allow for a common mark-up language for rendering report data in both HTML and PDF formats, consistently and easily.

The SVF will render report data in table format only, and the custom markup language used is based on standard HTML mark-up making the learning curve quick and easy.

To use the SVF in your own custom Report Definition you will need to use the follow information in your Report Definition Formatter element.

Element Name	Value
Assembly	Nintex.Reporting.UI.WSS.ServerControls, Version=1.0.0.0, Culture=neutral, PublicKeyToken=df8bc1a8465564d9
Data	Nintex.Reporting.UI.WSS.ServerControls.Pdf.NRSummaryViewerFormatter
Type	*User defined, enter your own template information based on the SVF schema.*

Note: The Report Formatter functionality is currently only implemented in the Nintex Reporting Summary View web part.

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SCHEMA

SUMMARY

Describes a summary view custom Report Formatter report definition.

CHILD ELEMENTS

Sections

PARENT ELEMENTS

None

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<Summary>
      <Sections ColumnLayout="2">
      :
      :
      </Sections>
</Summary>
```


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SECTIONS

Top level element that contains the definition of sections.

CHILD ELEMENTS

Section

PARENT ELEMENTS

Summary

OCCURRENCES

Minimum: 1
Maximum: 1

ATTRIBUTES

Name	Description	Required
ColumnLayout	Specifies the number columns that will be rendered.	True

EXAMPLE

Xml

```
<Summary>
      <Sections ColumnLayout="2">
            <Section>
                  <Item>..</Item>
                  <Item>..</Item>
            </Section>
      </Sections>
</Summary>
```


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SECTION

Describes a section (group) in the summary view report definition.

CHILD ELEMENTS

Item

PARENT ELEMENTS

Sections

OCCURRENCES

Minimum: 1
Maximum: unbounded

ATTRIBUTES

Name	Description	Required
Heading	Specifies the heading for the column.	True

EXAMPLE

Xml

```
<Summary>
      <Sections ColumnLayout="2">
            <Section>
                  <Item>..</Item>
                  <Item>..</Item>
            </Section>
      </Sections>
</Summary>
```


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ITEM

Represents a row in the summary view report definition.

CHILD ELEMENTS

Item

PARENT ELEMENTS

Sections

OCCURRENCES

Minimum: 1
Maximum: unbounded

ATTRIBUTES

Name	Description	Default Value	Required
Column	Specifies the internal column name used to retrieve the data/value from the **System.Data.DataTable** that contains the report execution data. This value is used as the **current** value when displaying comparison indicators.	n/a	True
ColorIndicator	Specify **True** to display a coloured (green/yellow/red) indicator that signifies the change direction of the current value compared against the previous value; otherwise **False** (which will then display a generic blue indicator). **Indicator Colour** / **Description** Green: Indicates a positive/good/expected rise between the current and previous values. Yellow: Indicates a zero change between the current and previous values. Red: Indicates a negative/bad/unexpected fall between the current and previous values.	False	False
DisplayIndicator	Specify **True** to display a graphical indicator which will represents the change between the current and previous values; otherwise **False**.	False	False

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Name	Description	Default Value	Required
PreviousColumn	Specifies the internal column name used to retrieve the data/value from the **System.Data.DataTable** that contains the report execution data. This value is used as the **previous** value when displaying comparison indicators.	*Blank*	False
ReverseColorIndicator	Specify **True** to reverse the standard colour indicators.	False	False

Indicator Colour (reversed)	Description
Green	Indicates a negative/bad/unexpected rise between the current and previous values
Yellow	Indicates a zero change between the current and previous values.
Red	Indicates a positive/good/expected fall between the current and previous values

EXAMPLE

Xml

```
<Summary>
      <Sections ColumnLayout="2">
            <Section>
                  <Item
                  Column="DocumentCount"
                  ColorIndicator="true"
                  DisplayIndicator="true"
                  PreviousColumn="DocumentCountPrevious"/>
                  <Item
                  Column="DocumentsViewedLast30Days"
                  ColorIndicator="false"
                  PreviousColumn="DocumentsViewedLast30DaysPrevious"/>
            </Section>
      </Sections>
</Summary>
```


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IMPORT REPORT XML SCHEMA

The Import Report functionality allows a Nintex Reporting report and its dependencies to be imported into the Nintex Reporting databases.

The file, which has an extension of .nrd is an xml file containing various elements required to create a fully-function report. These elements comprise:

- Report metadata, such as name, timeout value, icon, category
- Sql Server creation scripts for the report's stored procedure, cache table, and clean up stored procedure
- An embedded xml report definition, defining how Nintex Reporting webparts display the report data
- Parameter information, such as name, datatype, display order and whether to hide the parameter

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ARRAYOFREPORT

Top-level element that contains the individual report records.

CHILD ELEMENTS

Report

PARENT ELEMENTS

None

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report />
</ArrayOfReport>
```


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REPORT

Describes a report record.

CHILD ELEMENTS

AllowDrillDown, CategoryID, CleanupStoredProcedure, Description, DrillDownOnly, GuidString, IconURL, Parameters, ReportCacheTableCreationSQL, ReportCleanupSPSQL, ReportDefinitionString, ReportName, ReportRunnerSPSQL, ReportRunnerStoredProcedure, ReportRunTimeOut, TableName

PARENT ELEMENTS

ArrayOfReport

OCCURRENCES

Minimum: 1
Maximum: unbounded

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <AllowDrillDown />
        <CategoryID />
        <CleanupStoredProcedure />
        <Description />
        <DrillDownOnly />
        <GuidString />
        <IconURL />
        <Parameters />
        <ReportCacheTableCreationSQL />
        <ReportCleanupSPSQL />
        <ReportDefinitionString />
        <ReportName />
        <ReportRunnerSPSQL />
        <ReportRunnerStoredProcedure />
        <ReportRunTimeOut />
        <TableName />
    </Report>
</ArrayOfReport>
```


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ALLOWDRILLDOWN

Defines whether the report drills down to a sub report.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
true	Specifies that drilldown is supported.
false	Specifies that drilldown is not supported.

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <AllowDrillDown>true</AllowDrillDown>
        :
        :
     </Report>
</ArrayOfReport>
```


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CATEGORYID

Specifies the category under which the report will be located.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Category
1	User
2	Storage
3	Activity
4	Documents
5	Site
7	Search
8	Performance
9	Summary Statistics
10	Management
11	Lists & Discussions

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <CategoryID>10</CategoryID>
        :
        :
     </Report>
</ArrayOfReport>
```


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CLEANUPSTOREDPROCEDURE

Defines the name of the stored procedure which runs immediately after a report schedule runs.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <CleanupStoredProcedure>RptCleanUpUserReport</CleanupStoredProcedure>
        :
        :
     </Report>
</ArrayOfReport>
```


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DESCRIPTION

The report description, which is displayed in the Nintex Report Centre home page.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Description>List documents created in the last 24 hours.</Description>
        :
        :
     </Report>
</ArrayOfReport>
```


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DRILLDOWNONLY

Specifies whether the report can be accessed via drilldown only from another report. If false, the report can be used as a base report for a new schedule. If true, the report can only be accessed from another report via drilldown functionality.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
true	Specifies that the report is only accessible via drilldown from another report.
false	Specifies that the report can be used as a base report for new schedule.

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <DrillDownOnly>true</DrillDownOnly>
        :
        :
     </Report>
</ArrayOfReport>
```


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GUIDSTRING

Defines the GUID which uniquely identifies this report. The guid should be formatted as follows, where d represents a hexidecimal digit whose case is ignored.

dddddddd-dddd-dddd-dddd-dddddddddddd

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <GuidString>5E711D76-FEE4-4900-A0ED-4694A5D85E8D</GuidString>
        :
        :
     </Report>
</ArrayOfReport>
```


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ICONURL

Defines the relative path to the icon used in the left navigation for the report. The icons supplied reflect the type of chart used, but custom icons can be used.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Chart Type
/_layouts/NintexReporting/Images/BarChart30.png	Bar Chart
/_layouts/NintexReporting/Images/DataTable30.png	Data Table
/_layouts/NintexReporting/Images/HorizontalBarChart30.png	Horizontal Bar Chart
/_layouts/NintexReporting/Images/LineChart30.png	Line Chart
/_layouts/NintexReporting/Images/PieChart30.png	Pie Chart

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <IconURL>/_layouts/NintexReporting/Images/BarChart30.png</IconURL>
        :
        :
     </Report>
</ArrayOfReport>
```


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PARAMETERS

Holds the parameter elements required for the Stored Procedure specified in the ReportRunnerStoredProcedure element.

CHILD ELEMENTS

SqlParameterSerializable

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Parameters>
            <SqlParameterSerializable />
        </ Parameters>
        :
        :
     </Report>
</ArrayOfReport>
```


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SQLPARAMETERSERIALIZABLE

Defines an individual parameter required for the Stored Procedure specified in the ReportRunnerStoredProcedure element.

CHILD ELEMENTS

AllowNull, DbType, Description, DisplayName, DisplayOrder, DisplayType, Hidden, ParameterName, Sliding

PARENT ELEMENTS

Parameters

OCCURRENCES

Minimum: 0
Maximum: unbounded

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Parameters>
            <SqlParameterSerializable />
        </ Parameters>
        :
        :
     </Report>
</ArrayOfReport>
```


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ALLOWNULL

Defines whether the parameter allows null when creating a schedule or actioning Run new report.

Note that this is a UI validation setting and has no bearing on whether the Stored Procedure parameter allows null or has a default of null.

CHILD ELEMENTS

none

PARENT ELEMENTS

SqlParameterSerializable

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
true	Forces the user to enter a value for the parameter.
false	Allows the user to leave the value empty.

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Parameters>
            <SqlParameterSerializable>
                <AllowNull>true</AllowNull>
                :
                :
            </SqlParameterSerializable>
        </ Parameters>
        :
        :
     </Report>
</ArrayOfReport>
```


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DBTYPE

Defines the data type of the parameter.

CHILD ELEMENTS

none

PARENT ELEMENTS

SqlParameterSerializable

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Choose from the following values:
AnsiString, Byte, Boolean, Currency, Date, DateTime, Decimal, Double, Guid, Int16, Int32, Int64, SByte, Single, String, Time, UInt16, UInt32, UInt64, VarNumeric, AnsiStringFixedLength, StringFixedLength

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Parameters>
            <SqlParameterSerializable>
                <DBType>Boolean</DBType>
                :
                :
            </SqlParameterSerializable>
        </ Parameters>
        :
        :
     </Report>
</ArrayOfReport>
```


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DESCRIPTION

Describes an individual parameter. This is used as a tooltip when entering parameter values.

CHILD ELEMENTS

none

PARENT ELEMENTS

SqlParameterSerializable

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Parameters>
            <SqlParameterSerializable>
                <Description>The Team Site on which to report.</Description>
                :
                :
            </SqlParameterSerializable>
        </ Parameters>
        :
        :
     </Report>
</ArrayOfReport>
```


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DISPLAYNAME

The display name for an individual parameter. This is used as a label when entering parameter values.

CHILD ELEMENTS

none

PARENT ELEMENTS

SqlParameterSerializable

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Parameters>
            <SqlParameterSerializable>
                <Description>Team Site</Description>
                :
                :
            </SqlParameterSerializable>
        </ Parameters>
        :
        :
     </Report>
</ArrayOfReport>
```


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DISPLAYORDER

This defines the display order of the parameter in relation to other parameters. Parameters are displayed in the UI in ascending display order. Valid values are positive integers starting at 0 (zero)

CHILD ELEMENTS

none

PARENT ELEMENTS

SqlParameterSerializable

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Parameters>
            <SqlParameterSerializable>
                <DisplayOrder>2</DisplayOrder>
                :
                :
            </SqlParameterSerializable>
        </ Parameters>
        :
        :
     </Report>
</ArrayOfReport>
```


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DISPLAYTYPE

This defines the display type of the parameter. For example, a display type of Site results in a site picker being made available to select a Site on the UI page, and a display type of DateTime results in a calendar control being made available to select a valid date.

CHILD ELEMENTS

none

PARENT ELEMENTS

SqlParameterSerializable

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Choose from the following values:

DateTime, Text, Number, Site, Web, Person, Boolean, Interval, Computer, SearchScope, Object, Event, PerformanceCounterWatch

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Parameters>
            <SqlParameterSerializable>
                <DisplayType>Site</DisplayType>
                :
                :
            </SqlParameterSerializable>
        </ Parameters>
        :
        :
     </Report>
</ArrayOfReport>
```


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HIDDEN

This defines whether the parameter is viewable on the UI page.

CHILD ELEMENTS

none

PARENT ELEMENTS

SqlParameterSerializable

OCCURRENCES

Minimum: 1
Maximum: 1

VALUES

Value	Description
true	The parameter is hidden in the UI.
false	The parameter is viewable in the UI.

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Parameters>
            <SqlParameterSerializable>
                <Hidden>true</Hidden>
                :
                :
            </SqlParameterSerializable>
        </ Parameters>
        :
        :
     </Report>
</ArrayOfReport>
```


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PARAMETERNAME

This defines the name of the parameter in the stored procedure. When specifying this value, you must omit the "@" character which is used to define the stored procedure parameter. For example, if the stored procedure parameter is @SiteID, the value in this element would be SiteID

CHILD ELEMENTS

none

PARENT ELEMENTS

SqlParameterSerializable

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <Parameters>
            <SqlParameterSerializable>
                <ParameterName>SiteID</ParameterName>
                :
                :
            </SqlParameterSerializable>
        </ Parameters>
        :
        :
     </Report>
</ArrayOfReport>
```


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REPORTCACHETABLECREATIONSQL

Holds a SQL create table statement for the cache table named in the TableName element. Note this must be specified inside a CDATA section.

Note also that collation settings should not be specified.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <ReportCacheTableCreationSQL>
        <![CDATA[
        CREATE TABLE [dbo].[RptCacheMyReport]
        (
            ResultId int identity,
            ReportExecutionInstanceId int,
            ExcludeImages int,
            ExcludeSystemFiles int,
            Offset int,
            IntervalInMinutes int,
            Users bigint,
            Actions bigint,
            StartDate datetime,
            EndDate datetime,
            MonthLabel nvarchar(512),
            SiteId uniqueidentifier,
            WebId uniqueidentifier,
         )

        ]]>
        </ReportCacheTableCreationSQL>
        :
        :
     </Report>
</ArrayOfReport>
```


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REPORTCLEANUPSPSQL

Holds a SQL create procedure statement for the stored procedure named in the CleanupStoredProcedure element. Note this must be specified inside a CDATA section.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <ReportCleanupSPSQL>
        <![CDATA[
        CREATE PROCEDURE [dbo].[RptCleanUpMyReport]
            @ScheduleID int
        AS
        BEGIN
            SET NOCOUNT ON

            exec dbo.UpdateScheduleDateParam @ScheduleID, 'StartDate'
            exec dbo.UpdateScheduleDateParam @ScheduleID, 'EndDate'

        END
        ]]>
        </ReportCleanupSPSQL>
        :
        :
     </Report>
</ArrayOfReport>
```


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REPORTDEFINITIONSTRING

Holds the full ReportDefinitionXml value for the report, which defines how to display the report data in the Nintex Reporting web parts, as well as drill down report information.

Refer to the Report Definition XML section for a full specification of the schema of the ReportDefinitionXml value.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
      <ReportDefinitionString>
        <![CDATA<?xml version="1.0" encoding="utf-8"?><ReportDefinition
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">...</ReportDefinition>
        ]]>
        </ReportDefinitionString>
        :
        :
     </Report>
</ArrayOfReport>
```


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REPORTNAME

Specifies the report name. This value is displayed when choosing a report on which to base a new schedule.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
      <ReportName>MyReport</ReportName>
        :
        :
     </Report>
</ArrayOfReport>
```


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REPORTRUNNERSPSQL

Holds a SQL create procedure statement for the stored procedure named in the ReportRunnerStoredProcedure element.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <ReportRunnerSPSQL>
        <![CDATA[
        CREATE PROCEDURE [dbo].[RptMyReport]
            @ParentSiteId bigint
        AS
        BEGIN
            SET NOCOUNT ON

            Select count_big(distinct objectId) as [Number of Webs] from
dbo.DimSPWebs where ParentSiteId = @ParentSiteId

        END
        ]]>
        </ReportRunnerSPSQL>
        :
        :
     </Report>
</ArrayOfReport>
```


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REPORTRUNNERSTOREDPROCEDURE

Specifies the name of the stored procedure for this report

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <ReportRunnerStoredProcedure>RptMyReport</ReportRunnerStoredProcedure>
        :
        :
     </Report>
</ArrayOfReport>
```


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REPORTRUNTIMEOUT

Specifies the SQL Server timeout value for the stored procedure, in seconds. If the stored procedure named in the ReportRunnerStoredProcedure element has not completed executing within this time, an error is thrown indicating the timeout has expired.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <ReportRunTimeOut>1800</ReportRunTimeOut>
        :
        :
     </Report>
</ArrayOfReport>
```


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TABLENAME

Defines the name of the SQL Server table in which to cache data for schedules based on this report.

CHILD ELEMENTS

none

PARENT ELEMENTS

Report

OCCURRENCES

Minimum: 1
Maximum: 1

EXAMPLE

Xml

```
<ArrayOfReport>
     <Report>
        <TableName>RptCacheMyReport</TableName>
        :
        :
     </Report>
</ArrayOfReport>
```


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