hyper → **ContentManagementServer**
CMS

Version 6.0
Report Guide

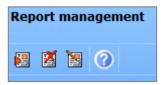2016-01-06

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1 Introduction to Reports

The Report Management of the system enables you to create individual reports and charts. The reports are based on SQL (Structured Query Language), so a basic knowledge about SQL might be helpful but is not necessary, since the editor allows you the create SQL statements without typing them.

Select the corresponding menu item in the Navigator to access the report management. After the selection, a toolbar will appear in the work place. When you move the mouse pointer over one of the icons, the name of the action or a short explanation will be displayed:

You can select the following actions for the Reports:
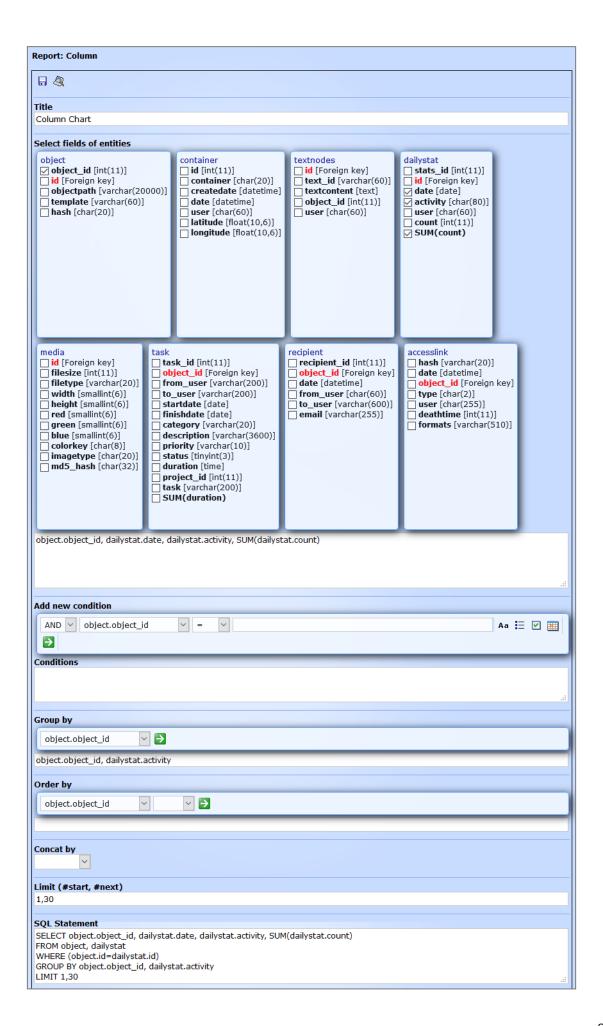
- Create a new report
- Remove an existing report
- Edit an existing report

2 Report Management

2.1 Creating a new Report

Click on the first icon in the toolbar. A text field appears that will prompt you for a name of the new report. Input the name (the name must be unique). Then click the "OK" button.
The new report has been created and an editor opens automatically.

Report: Column

💾 🔍

Title

Column Chart

Select fields of entities

object
- ☑ **object_id** [int(11)]
- ☐ **id** [Foreign key]
- ☐ **objectpath** [varchar(20000)]
- ☐ **template** [varchar(60)]
- ☐ **hash** [char(20)]

container
- ☐ **id** [int(11)]
- ☐ **container** [char(20)]
- ☐ **createdate** [datetime]
- ☐ **date** [datetime]
- ☐ **user** [char(60)]
- ☐ **latitude** [float(10,6)]
- ☐ **longitude** [float(10,6)]

textnodes
- ☐ **id** [Foreign key]
- ☐ **text_id** [varchar(60)]
- ☐ **textcontent** [text]
- ☐ **object_id** [int(11)]
- ☐ **user** [char(60)]

dailystat
- ☐ **stats_id** [int(11)]
- ☐ **id** [Foreign key]
- ☑ **date** [date]
- ☑ **activity** [char(80)]
- ☐ **user** [char(60)]
- ☐ **count** [int(11)]
- ☑ **SUM(count)**

media
- ☐ **id** [Foreign key]
- ☐ **filesize** [int(11)]
- ☐ **filetype** [varchar(20)]
- ☐ **width** [smallint(6)]
- ☐ **height** [smallint(6)]
- ☐ **red** [smallint(6)]
- ☐ **green** [smallint(6)]
- ☐ **blue** [smallint(6)]
- ☐ **colorkey** [char(8)]
- ☐ **imagetype** [char(20)]
- ☐ **md5_hash** [char(32)]

task
- ☐ **task_id** [int(11)]
- ☐ **object_id** [Foreign key]
- ☐ **from_user** [varchar(200)]
- ☐ **to_user** [varchar(200)]
- ☐ **startdate** [date]
- ☐ **finishdate** [date]
- ☐ **category** [varchar(20)]
- ☐ **description** [varchar(3600)]
- ☐ **priority** [varchar(10)]
- ☐ **status** [tinyint(3)]
- ☐ **duration** [time]
- ☐ **project_id** [int(11)]
- ☐ **task** [varchar(200)]
- ☐ **SUM(duration)**

recipient
- ☐ **recipient_id** [int(11)]
- ☐ **object_id** [Foreign key]
- ☐ **date** [datetime]
- ☐ **from_user** [char(60)]
- ☐ **to_user** [varchar(600)]
- ☐ **email** [varchar(255)]

accesslink
- ☐ **hash** [varchar(20)]
- ☐ **date** [datetime]
- ☐ **object_id** [Foreign key]
- ☐ **type** [char(2)]
- ☐ **user** [char(255)]
- ☐ **deathtime** [int(11)]
- ☐ **formats** [varchar(510)]

object.object_id, dailystat.date, dailystat.activity, SUM(dailystat.count)

Add new condition

| AND ▢ | object.object_id ▢ | = ▢ | | Aa ☰ ☑ ▦ |

➡

Conditions

Group by

| object.object_id ▢ | ➡ |

object.object_id, dailystat.activity

Order by

| object.object_id ▢ | ▢ | ➡ |

Concat by

▢

Limit (#start, #next)

1,30

SQL Statement

SELECT object.object_id, dailystat.date, dailystat.activity, SUM(dailystat.count)
FROM object, dailystat
WHERE (object.id=dailystat.id)
GROUP BY object.object_id, dailystat.activity
LIMIT 1,30

Entities
The editor shows the entities (tables) of the logical data model and all their attributes
including their data-type in brackets. Red attributes represent foreign keys and might
not be of special interest in most cases.
You can now simply select the data for your report by checking the desired attributes.
The editor will generate the SQL statement and will immediately present it to you in
the last text area named "SQL Statement".

Conditions
In the field "Conditions" your defined restrictions regarding the data will appear. You
can use the wizard "Add new condition" to define new conditions and add them.

Group by
Select an attribute you want to group by your data. This makes especially sense if
you want to calculate the SUM of the "count" in entity "dailystat" or the "duration" of
entity "task". For instance, one statistic will be grouped by the "object_id", which
represents one unique object in the system.

Order by
Select one or more attributes the result should by sorted by ascending or descending.

Concat by
Concat means Concatenation. If you want all attributes of your results to be
summarized according to one attribute.

Limit
You can limit the number of rows returned by the SQL query. For instance 1,30
means, staring from the first row the next 30 rows will be returned.

After you have defined your SQL Statement you should first save your report so the
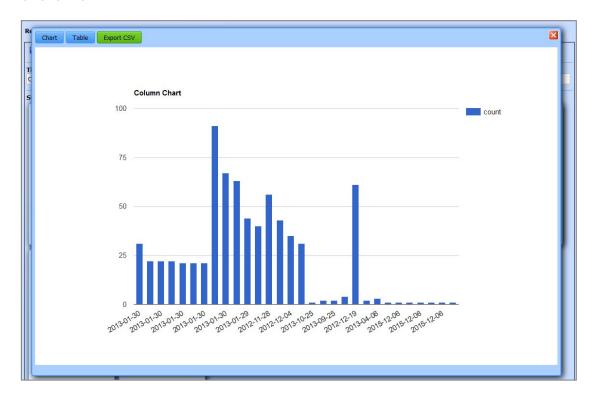select fields of the chart can be updated.

Charts
Select a chart type and assign the values of the SQL statement to the chart. The
meaning of the values are explained in the chart graphics.
In order to display a graph numerical values are required for pie or column charts.
The timeline chart requires valid dates and the geo chart needs valid latitude and
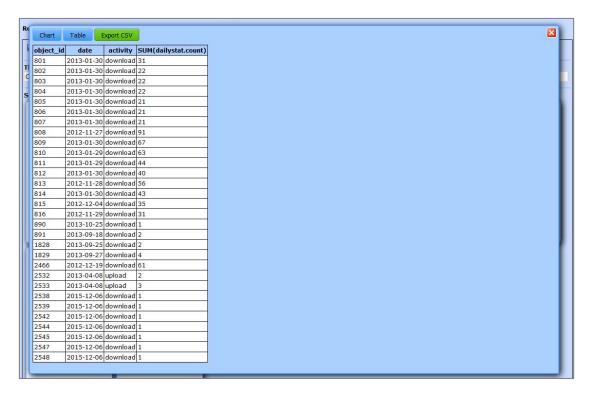longitude coordinates.

Now you can preview the result of your report by clicking the preview button right next to the save button on top of the editor.

Chart view:

| Chart | Table | Export CSV | |

Column Chart

Table view:

| Chart | Table | Export CSV |

object_id	date	activity	SUM(dailystat.count)
801	2013-01-30	download	31
802	2013-01-30	download	22
803	2013-01-30	download	22
804	2013-01-30	download	22
805	2013-01-30	download	21
806	2013-01-30	download	21
807	2013-01-30	download	21
808	2012-11-27	download	91
809	2013-01-30	download	67
810	2013-01-29	download	63
811	2013-01-29	download	44
812	2013-01-30	download	40
813	2012-11-28	download	56
814	2013-01-30	download	43
815	2012-12-04	download	35
816	2012-11-29	download	31
890	2013-10-25	download	1
891	2013-09-18	download	2
1828	2013-09-25	download	2
1829	2013-09-27	download	4
2466	2012-12-19	download	61
2532	2013-04-08	upload	2
2533	2013-04-08	upload	3
2538	2015-12-06	download	1
2539	2015-12-06	download	1
2542	2015-12-06	download	1
2544	2015-12-06	download	1
2545	2015-12-06	download	1
2547	2015-12-06	download	1
2548	2015-12-06	download	1

You can also export and download the result as CSV file.

2.1.1 Adding user defined conditions

If you want to user to set certain values for the report, e.g. a filter for all tasks that didn't meet a certain percentage of work so far, you can use the icons for text, text-options, checkbox or date to allow the user to assign values to the conditions of a report. This procedure is the same as the hyperCMS tags used in templates.

2.1.2 Selecting and restructuring data from entity textnodes

A special case might be the selection of meta data of assets or any kind of content of pages or components.
All content is stored in the entity "textnodes". The "text_id" represents the ID defined in the template and the "textcontent" provides the content itself.

In order to build a report based on the content of various fields/tags defined in a template you need to select the attributes of the entity by using a special statement.

If you want all content of the fields with text_id equal to "Titel_DE" in the second column and "Titel_DE" in the third column you need to manually apply the CASE command, see example:

textnodes.id, (CASE WHEN text_id='Titel_DE' THEN textcontent END) AS Titel_DE, (CASE WHEN text_id='Titel_EN' THEN textcontent END) AS Titel_EN

It is important to use "Concat by" in order to summarize all values of one container in the same result row.

Example SQL statement:
SELECT
object.objectpath, textnodes.id,
(CASE WHEN textnodes.text_id='Titel_DE' THEN textnodes.textcontent END) AS
Titel_DE,
(CASE WHEN textnodes.text_id='Titel_EN' THEN textnodes.textcontent END) AS
Titel_EN
FROM
object, textnodes
WHERE
(object.id=textnodes.id) AND textnodes.textcontent != ""
AND (textnodes.text_id = "Titel_DE" OR textnodes.text_id = "Titel_EN")

This will create the following result table with the titles in German and English:

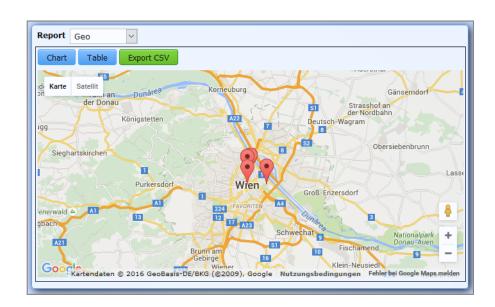| objectpath	id	Titel_DE	Titel_EN
%page%/hyperCMS/what-is/digital-asset-management.xhtml	15426	Digital Asset Management	Digital Asset Management
%page%/hyperCMS/index.xhtml	15188	Home	Home
%page%/hyperCMS/what-is/content-management.xhtml	15428	Content Management	Content Management
%page%/hyperCLOUD/success.xhtml	9610	Ihr Enterprise Account steht bereit	Your Enterprise Account is ready
%page%/hyperCLOUD/02_Pricing/index-Copy.xhtml	9860	Gestalten Sie den Preis anhand Ihrer individuellen Bedürfnisse	Define the price based on your individual needs
%page%/hyperCLOUD/03_Register/test.xhtml	9680	Konfigurieren Sie Ihr Cloud Service	Configure your Cloud Service
%page%/hyperCMS/services/.folder	15446	Services	Services
%page%/hyperCMS/company/about-us.xhtml	15452	Über uns	About us
%page%/hyperCMS/customers.xhtml	15480	Kunden	Customers
%page%/hyperCLOUD/index.xhtml	9450	1 GB Speicherplatz kostenlos, 2 Wochen kostenlos testen ... Starten Sie jetzt	1 GB storage for free, 2 weeks free trial ... start today
%comp%/hyperCMS/Customers/TakafulEmarat.xhtml	6274	Takaful Emarat	Takaful Emarat
%comp%/hyperCMS/Customers/Schraubenfabrik.xhtml	6290	Schraubenfabrik - die Mutter der Coworking-Spaces in Wien	Schraubenfabrik - the mother of coworking-spaces in Vienna
%comp%/hyperCMS/Customers/Asli_Bayram.xhtml	6308	Asli Bayram	Asli Bayram
%comp%/hyperCMS/Customers/Concordia1950.xhtml	6306	Concordia 1950	Concordia 1950
%comp%/hyperCMS/Customers/SMSDataSystems.xhtml	6310	SMS Data Systems	SMS Data Systems
%comp%/hyperCMS/Customers/SelbstAktiv.xhtml	6314	selbst aktiv	selbst aktiv
%comp%/hyperCMS/Boxes/MediaStreaming.xhtml	6218	Media Streaming	Media Streaming
%comp%/hyperCMS/Boxes/WAI.xhtml	6220	Barrierefreie Darstellung von Inhalten	Barrier free access of content
%comp%/hyperCMS/Customers /EuropeanComputerDrivingLicence.xhtml	6200	European Computer Driving Licence (Oesterreichische Computer Gesellschaft)	European Computer Driving Licence (Austrian Computer Society)
%comp%/hyperCMS/Customers/Rochuspark.xhtml	6204	Rochuspark - UnternehmerInnenzentrum	Rochuspark - entrepreneur center
%comp%/hyperCMS/Boxes/ContactExpert.xhtml	6202	Experten kontaktieren	Contact an expert
%comp%/hyperCMS/Customers/Hutfabrik.xhtml	6206	Hutfabrik - UnternehmerInnenzentrum	Hutfabrik - entrepreneur center
%comp%/hyperCMS/Customers/MenschTechnik.xhtml	6208	Mensch & Technik - Institut für innovative Arbeitsgestaltung	Mensch & Technik - Institute for innovative work organization
%comp%/hyperCMS/Customers/Vereine-Cluster.xhtml	3105	Verein e-Cluster	
%comp%/hyperCMS/Customers/IFJ.xhtml	6212	IFJ Institut für Jungunternehmen	IFJ Institute for young entrepreneurs
%comp%/hyperCMS/Boxes/LiveDemo.xhtml	6216	Live Demonstration	Request a demo
%comp%/hyperCMS/Customers/Kurier.xhtml	6214	Kurier	Kurier

2.1.3 Integrating a Report

You can integrate a report in any PlugIn you like using an iframe. This is the simplest method and requires only this code for integration:

```
<iframe src="http://yourdomain.com/hypercms/report/?reportname=myreport"
style="width:100%; height:99%; border:0;"></iframe>
```

The report requires a valid user to be logged in.

There is a home box that will automatically integrate any existing report for the user to select. If you don't want this feature you need the remove the file "all_reports.inc.php" from the hypercms/box directory.

2.1.4 Example SQL Statements

Top 10 User by Up- or Download:
SELECT dailystat.user, SUM(dailystat.count) AS count
FROM dailystat
WHERE dailystat.activity = "[hyperCMS:textl id='Activity' label='Activity'
list='download|upload']"
GROUP BY dailystat.user
ORDER BY count DESC
LIMIT 1,10

Geolocation of Users by their Assets:
SELECT container.longitude, container.latitude, container.user
FROM container
WHERE container.longitude != "" AND container.latitude != ""
GROUP BY container.user
ORDER BY container.date DESC

Up-/Download-Statistics:
SELECT dailystat.date, SUM(dailystat.count), (SUM(media.filesize)/1024) AS filesize
FROM dailystat, media
WHERE (dailystat.id=media.id) AND dailystat.activity = "[hyperCMS:textI id='activity'
label='Up/Download Activity' list='download|upload']"
GROUP BY dailystat.date
ORDER BY dailystat.date DESC
LIMIT 1,31

2.2 Removing a Report

Before you use this function you have to be sure, that you no longer need the report.
Is it still in use, it would no longer appear.
To remove a report, click the second icon on the toolbar. After that, a select box
appears in the workspace. Here you can select the report to be deleted and consult it
again in the preview. To delete the item permanently you need to press the "OK"
button.

2.3 Editing a Report

To edit an existing report, click on the third icon and select the desired entry. The
report appears in the editor and can now be edited. Any changes will be applied only
after the Report has been saved.

3 Legal reference / flag

3.1 Questions and suggestions

For advanced questions and suggestions, please contact the support. We are available for every question regarding our reseller- and partner-program. You can apply for an access to our enhanced Online-Demo of the hyper Content Management Servers via our support.

hyperCMS Support:
www.hypercms.com
support@hypercms.com

3.2 Imprint

Responsible for the content:

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Content Management Solutions GmbH
Rembrandtstr. 35/6
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office@hypercms.com
http://www.hypercms.com

3.3 Legal information

The present product information is based on the version of the program, which was available at the time the document was composed.

The maker reserves the rights of modifications and corrections of the program. Errors and misapprehension accepted.

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