

IceQuery Users Guide

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Users Guide

The modern queries tool for IBMi

by Jeppe K Bundgaard

This book applies to IceQuery version: 0.98 and above.

IceQuery

System & Method A/S

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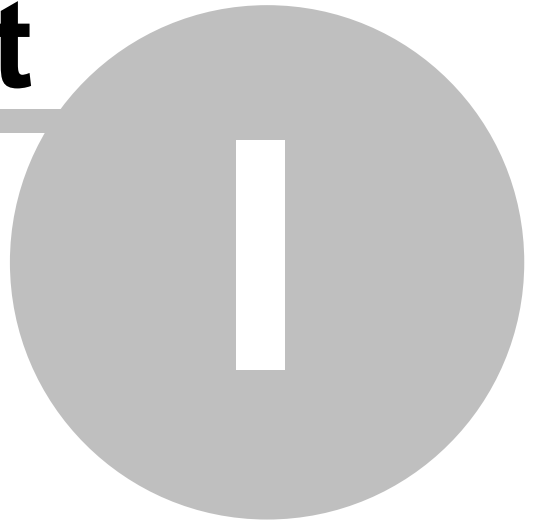
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Part



1 Getting started

1.1 Prerequisites for installation

Getting Started:

Before installing please check the following information:

- Icebreak must be at least build 332 or later versions. If not - please install new version from Icebreak homepage <http://www.icebreak.org>
- IceCap must be version 1.62.10 or later versions. If not - please install new version from Application store on the administrations menu

After installation and if problems please check the Technical installation documentation

1.2 Introducing IceQuery

Purpose

The purpose of the product is to create a new user surface for Query to improve the product in the following areas:

- 1) Windows-like user interface for maintenance and execution of queries
- 2) Menu driven access for running queries on the iSeries
- 3) Ability to view query results as HTML tables, graphs, XML, Excel spreadsheet and normally screen and printed output.
- 4) User-controlled authority control on the use of queries, Libraries and Files

The basis for the new queries is a common querydefinition and the creation or maintenance queries is equal to normal queries. The Query definitions can be run / maintained from 5250 if desired.

User Interface

IceQuery runs under IceBreak and use the products IceCap and IceMenu to build user limitation surfaces. IceMenu used to control login, user rights and the menu structure where the queries can settle-les and maintained. IceCap used to create a graphic interface to Query where in authority control on queries, libraries and files are managed. Applications for maintenance of access control are made in IceBreak and can be accessed thru menu items in IceMenu.

IceQuery started from a regular browser on an port on the iSeries (port number is selected during installation.) Ice-Query can be run without installation of any kind on the client beyond a standard browser. Query results can be shown as Excel spreadsheets, in this case this product must be installed on the PC.

IceQuery installs as a normal framework of IceBreak and can be used immediately after installing the product without additional configuration. The product will work for a 30 days trial periode. After this period it is necessary to contact System and Method A/S for a permanent license.

When IceQuery started the user will be prompted for a login and the user must use normal iSeries Login. After login the user will be presented with an interface with a menu in the left side and a larger working area on the right side.

The menu will include the following main menus:

- 1) Favorites

- 2) Run Queries
- 3) Work with Queries
- 4) Administration

Work area will initially contain a list of the queries latest run by user (if the query is executed thru IceQuery).

1.3 First Step

Getting Started:

When the IceQuery server is installed and running you can access it from a client thru a browser on the selected port like this :

http://<Series IP>:<Icequery portnumber>

First thing to do after IceQuery has been installed for the first time is to create the library authorities for users and user groups.

Creating the library authorities for users and user groups is done with the application "Work with Restriction" which is found under menu "Work with queries". You have to be an administrator to use this application.

When finish creating library authorities for users and user groups please logoff and on again - the authorities is set at logon so changing the authorities does not change running jobs.

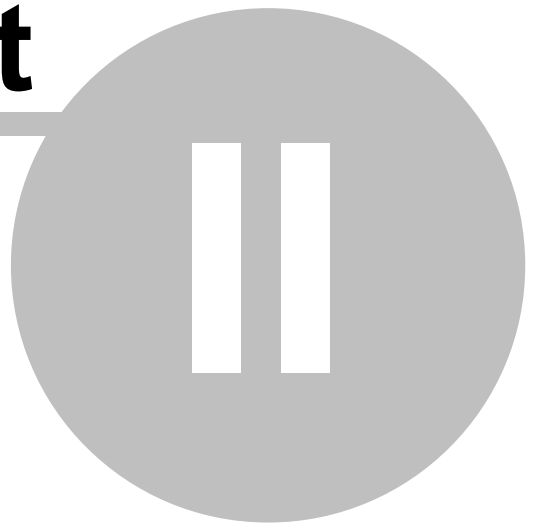
After this you might want to run queries already on your system - this can be accomplished by using the application "Work with Queries". In this application it is also possible to create existing queries in IceQuery so these queries can be put on a menu and so default parameters about the use and run of the query can be saved.

Creating menus with queries for easy access:

In main menu "Run Queries" it is possible to create a menu with queries for easy access to existing queries. To create this menu you first have to create the menu structure and the authority to this menu - this is done in the application "Work with Groups".

After creating the menu structure you can add queries to then menu groups using the applications "Work with Queries".

Part



2 Run queries

2.1 Run queries

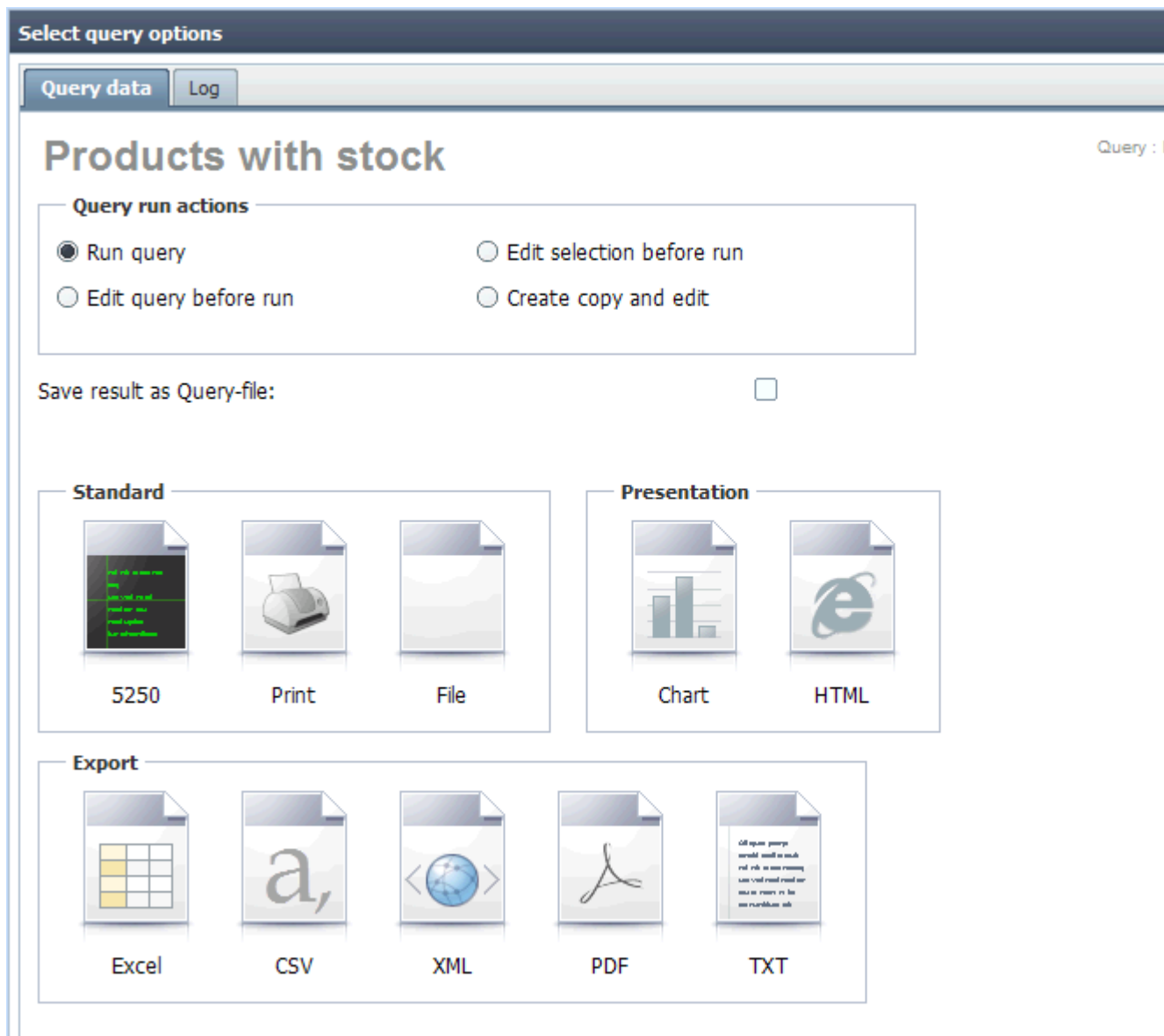
Run queries

Run queries access a dynamic build menu of the queries. The menu only shows queries which the user can access. The menu of queries must be organized by the administrator in away that suits the company/usergroups. Building the menu occurs under "Work with Queries" - application Work with Groups

Run query with option

When a query runs (with a click or double click Query in the menu) opens a tab in the work area and starts an application. This application shows description, library, name and long description for the query and ask the user to select where which actions ("Query run actions") to perform before showing the result .

Application looks as follows:



All the functions in the application can be removed for a user due to setup - se Work with Restrictions .

The possibilities for "Query run actions" are:

- Run query
- Edit selection before run
- Edit query before run
- Create copy and edit

The option "Run query" just runs the query

The option "Edit selection before run" allows the user to edit the selections of the query before the result appears. Editing is done thru IceCap in the normal querytool (file change and output options are disabled). If the user does not have authority to edit queries in the library the option is not shown

The option "Edit query before run" allows the user to edit all query options (except file- and output choices) before the result appears. Editing is done thru IceCap in the normal querytool (file change and output options are disabled). If the user does not have authority to edit queries in the library the option is not shown.

The option "Create copy and edit " makes it possible to create a new query as a copy of the selected query and edit this new query before this query is run.

The option "Save result as Query-file" works on HTML, XML, CSV , Excel, PDF, TXT and File. If this is selected the result will be shown on screen AND saved as a Query-file and can later be seen in the application Work with Query-files. Files in Work with Query-files can be shared with other users.

To run the query the user has to click an icon which selects the output format :

- As usual (5250) results shown by IceCap (5250)
- As a iSeries file for later viewing (File)
- As a print on iSeries (Print)
- As a graphic depiction (Chart)
- As a HTML table (HTML)
- As a Excel spreadsheets (Excel)
- As a CSV data file (CSV)
- As a XML data file (XML)
- As a PDF file (PDF)
- As a TXT file (converted to HTML) (TXT)
-

See description of these results later in this document.

After selecting the delivery method by clicking - and after possibly editing the query - the result will be shown in a new tab. It is possible to return to the tab with the View option and choose another form of display and thereby creating a new tab with the result.

5250

"5250" displayed by IceCap as normal query resultat in a 5250 format. The screen will look up in the following way:

Spørg på indkøbsstatistik

Query . . . : ADM4LIB55/INDSTAAF

Position to line

Report width

Shift to column

Line	Leverandør	Varenummer	Dato	Leveret den	Antal
000001	1305	53173	20,000,809	20,000,809	12.000
000002	1455	53173	20,000,717	20,000,717	84.000
000003	1455	53173	20,000,810	20,000,810	10.000
000004	1455	53173	20,000,816	20,000,816	242.000
000005	1455	53173	20,000,831	20,000,905	180.000
000006	1455	53173	20,000,922	20,000,926	120.000
000007	1455	53173	20,001,009	20,001,011	240.000
000008	1455	53173	20,010,103	20,010,105	240.000
000009	1455	53173	20,010,208	20,010,213	240.000
000010	1455	53173	20,010,305	20,010,307	240.000
000011	1455	53173	20,010,418	20,010,418	120.000
000012	1455	53173	20,010,508	20,010,509	120.000
000013	1455	53173	20,010,523	20,010,529	120.000

OK F3=Exit F12=Cancel F19=Left F20=Right F21=Split F22=Width 80

File

"File" would submit a job creating a queryresultfile on the iSeries. As a confirmation to the user a new tab is displayed with the name of the resulting file and a button to redirect the user to an application where the result can be seen. The resulting file can also be view with the application "Work with Query Files". The confirmation screen looks like :

Submitted query	
Library:	IQQUERIES
Query:	PRODLAG3
Description:	Produkter med lager
Long description:	Query med selektion på lagerbeholdning
Result library:	ICEQUERY
Result file:	Q000000043
Message:	Submit OK
<input type="button" value="Show query results"/>	

Print

"Print" will first display a messagebox requesting the user to select a printer. After selecting a printer a new tab would tell the user that a job printing the query has been submitted. The tab looks like :

Submitted query to print	
Library:	IQQUERIES
Query:	PRODLAG3
Description:	Produkter med lager
Long description:	Query med selektion på lagerbeholdning
Printer:	HP2200
Message:	Submit OK

Chart

"Chart" first runs the query and then present the user for an selection panel where the user must select which field to put on the x-axis of the result and which fields til put on the y-axis (1-9). The selection for y-axis 2-9 is placed on tab 2. After selecting these the user can press the the graph type by clicking the icon for this type and the graph will be created and shown in a new tab.

It is possible to select between the following chart types:

- Bar 2D
- Area 2D
- Column 2D
- Column 3D
- Line
- Pie 2D
- Pie 3D
- Doughnut 2D
- Multi-select Bar 2D
- Multi-select Area 3D
- Multi-select Column 3D
- Multi-select Column 2D
- Multi-select Line
- Stacked Bar 2D
- Stacked Area 2D
- Stacked Column 2D
- Stacked Column 3D
- Combination Column 2D + line
- Combination Column 3D + line

The selection of graph-type, x-axis and y-axis' is saved and will be used next time the user makes a graph on the query.

The selection screen will look up the following way:

Select chart data More Y-axis Chart

Products with stock

Query : IQQDEMO/PRODLAG

Select axis

X axis: (PRODUCTID)

Y axis: UNITPRICE * UNITS00001 (LAGTOT)

Single Series

Bar 2D Area 2D Column 2D Column 3D Line Pie 2D Pie 3D Doughnut 2D

Multi-select

Bar 2D Area 2D Column 2D Column 3D Line

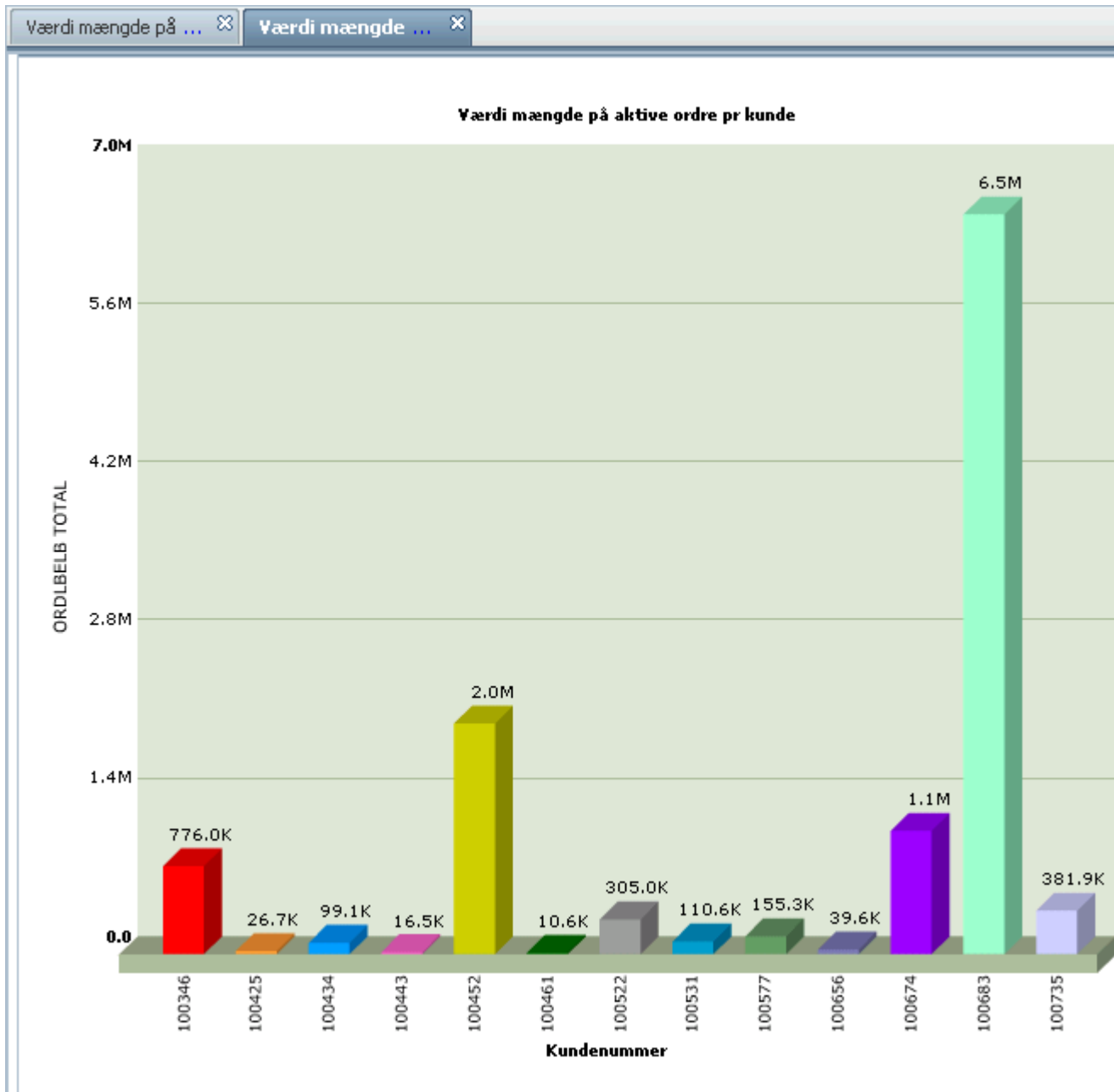
Combination

Column 2D + Line Column 3D + Line

Stacked

Bar 2D Area 2D Column 2D Column 3D

The chart screen will look up the following way:



HTML

"HTML "appears as a nice HTML table. The screen will look up the following way:

Products with stock

Query :IQQDEMO/PRODLAG

PRODUCTID	PRODU00001	UNITS00001	Lager
24	Guaraná Fantástica	20	540.0
25	NuNuCa Nuß-Nougat-Creme	76	6384.
26	Gumbär Gummibärchen	15	2810.
27	Schoggi Schokolade	49	12900.
28	Rössle Sauerkraut	26	7113.
29	Thüringer Rostbratwurst	0	0.00
30	Nord-Ost Matjeshering	10	1553.
31	Gorgonzola Telino	0	0.00
32	Mascarpone Fabioli	9	1728.
33	Geitost	112	1680.
34	Sasquatch Ale	111	9324.

Excel

"Excel" creates an Excel document which can be saved or shown in Excel (you need to have Excel installed when using this option).

CSV

"CSV" creates an CSV document which can be saved or shown in the CSV-browser (maybe Excel). The screen could look the following way:



```
24;"Guaraná Fantástica";20;540.00;27.00;10
25;"NUNUCA Nuß-Nougat-Creme";76;6384.00;84.00;11
26;"Gumbär Gummibärchen";15;2810.70;187.38;11
27;"Schoggi Schokolade";49;12906.60;263.40;11
28;"Rössle Sauerkraut";26;7113.60;273.60;12
29;"Thüringer Rostbratwurst";0;0.00;742.74;12
30;"Nord-Ost Matjeshering";10;1553.40;155.34;13
31;"Gorgonzola Telino";0;0.00;75.00;14
32;"Mascarpone Fabioli";9;1728.00;192.00;14
33;"Geitost";112;1680.00;15.00;15
34;"Sasquatch Ale";111;9324.00;84.00;16
35;"Steeleye stout";20;2160.00;108.00;16
36;"Inlagd sill";112;12768.00;114.00;17
37;"Gravad lax";11;1716.00;156.00;17
39;"Chartreuse verte";69;7452.00;108.00;18
64;"wimmers gute semmelknödel";22;4389.00;199.50;12
67;"Laughing Lumberjack Lager";52;4368.00;84.00;16
69;"Gudbrandsdalsost";26;5616.00;216.00;15
71;"Fløtemysost";26;3354.00;129.00;15
72;"Mozzarella di Giovanni";14;2923.20;208.80;14
73;"Röd Kaviar";101;9090.00;90.00;17
75;"Rhönbräu Klosterbier";125;5812.50;46.50;12
77;"Original Frankfurter grüne soße";32;2496.00;78.00;12
```

XML

"XML" creates an XML document which can be saved or shown in the XML-browser. The screen could look the following way:

```
<?xml version="1.0" encoding="windows-1252" ?>
<resultset cols="6" rows="23">
  <row PRODUCTID="24" PRODU00001="Guaraná Fantástica" UNITS00001="20" LAGTOT="540.00" UNITPRI="1" />
  <row PRODUCTID="25" PRODU00001="NuNuCa Nuß-Nougat-Creme" UNITS00001="76" LAGTOT="1290.00" UNITPRI="1" />
  <row PRODUCTID="26" PRODU00001="Gumbär Gummibärchen" UNITS00001="15" LAGTOT="225.00" UNITPRI="1" />
  <row PRODUCTID="27" PRODU00001="Schoggi Schokolade" UNITS00001="49" LAGTOT="1290.00" UNITPRI="1" />
  <row PRODUCTID="28" PRODU00001="Rössle Sauerkraut" UNITS00001="26" LAGTOT="7113.60" UNITPRI="1" />
  <row PRODUCTID="29" PRODU00001="Thüringer Rostbratwurst" UNITS00001="0" LAGTOT="0.00" UNITPRI="1" />
  <row PRODUCTID="30" PRODU00001="Nord-Ost Matjeshering" UNITS00001="10" LAGTOT="150.00" UNITPRI="1" />
  <row PRODUCTID="31" PRODU00001="Gorgonzola Telino" UNITS00001="0" LAGTOT="0.00" UNITPRI="1" />
  <row PRODUCTID="32" PRODU00001="Mascarpone Fabioli" UNITS00001="9" LAGTOT="1728.00" UNITPRI="1" />
  <row PRODUCTID="33" PRODU00001="Geitost" UNITS00001="112" LAGTOT="1680.00" UNITPRI="1" />
  <row PRODUCTID="34" PRODU00001="Sasquatch Ale" UNITS00001="111" LAGTOT="9324.00" UNITPRI="1" />
  <row PRODUCTID="35" PRODU00001="Steeleye Stout" UNITS00001="20" LAGTOT="2160.00" UNITPRI="1" />
  <row PRODUCTID="36" PRODU00001="Inlagd Sill" UNITS00001="112" LAGTOT="12768.00" UNITPRI="1" />
  <row PRODUCTID="37" PRODU00001="Gravad lax" UNITS00001="11" LAGTOT="1716.00" UNITPRI="1" />
  <row PRODUCTID="39" PRODU00001="Chartreuse verte" UNITS00001="69" LAGTOT="7452.00" UNITPRI="1" />
  <row PRODUCTID="64" PRODU00001="Wimmers gute Semmelknödel" UNITS00001="22" LAGTOT="1716.00" UNITPRI="1" />
  <row PRODUCTID="67" PRODU00001="Laughing Lumberjack Lager" UNITS00001="52" LAGTOT="5616.00" UNITPRI="1" />
  <row PRODUCTID="69" PRODU00001="Gudbrandsdalsost" UNITS00001="26" LAGTOT="5616.00" UNITPRI="1" />
  <row PRODUCTID="71" PRODU00001="Fløtemysost" UNITS00001="26" LAGTOT="3354.00" UNITPRI="1" />
  <row PRODUCTID="72" PRODU00001="Mozzarella di Giovanni" UNITS00001="14" LAGTOT="2952.00" UNITPRI="1" />
  <row PRODUCTID="73" PRODU00001="Röd Kaviar" UNITS00001="101" LAGTOT="9090.00" UNITPRI="1" />
  <row PRODUCTID="75" PRODU00001="Rhönbräu Klosterbier" UNITS00001="125" LAGTOT="5850.00" UNITPRI="1" />
  <row PRODUCTID="77" PRODU00001="Original Frankfurter grüne Soße" UNITS00001="32" LAGTOT="1716.00" UNITPRI="1" />
</resultset>
```

PDF

"PDF" creates an PDF document which is shown. The screen could look the following way:

The screenshot shows the IceQuery application window. The top toolbar includes icons for 'Save a Copy', 'Print', 'Mail', 'Share', 'Search', 'Select', and a zoom level of 61%. On the left, there is a 'Bookmarks' pane with 'Page 1' and 'Page 2' listed. The main area displays a table of product data with the following columns: PRODUCTID, PRODUCTNAME, UNITSINSTOCK, and Lagerbeleg. The data is as follows:

PRODUCTID	PRODUCTNAME	UNITSINSTOCK	Lagerbeleg
24	Guaraní Fantástica	20	540
25	Muñeca M&S-Nougat-Creme	76	6,384
26	Gumbár Gumbibärchen	15	2,811
27	Sonoggi Schokolade	43	12,307
28	Rössle Sauerkraut	26	7,114
29	Thüringer Rostbratwurst	0	0
30	Nord-Ost Matjeshering	10	1,553
31	Gorgonzola Telino	0	0
32	Mascarpone Fabioli	3	1,728
33	Gaislet	112	1,690
34	Basquatch Ale	111	3,324
35	Steeleye Stout	20	2,180
36	Inlagd Bill	112	12,769
37	Gravad lax	11	1,718
38	Chartreuse verte	69	7,452
64	Nimmere gute Semmelknödel	22	4,383
67	Laughing Lumberjack Lager	52	4,389
69	Gudbrandsdalsost	26	5,618
71	Fløtenysost	26	3,354
72	Mozzarella di Giovanni	14	2,923
73	Röd Kavlar	101	3,090
75	Rheinbräu Klosterbier	125	5,813
77	Original Frankfurter grüne Soße	32	2,436

At the bottom of the table, it says: *** END OF REPORT ***

TXT

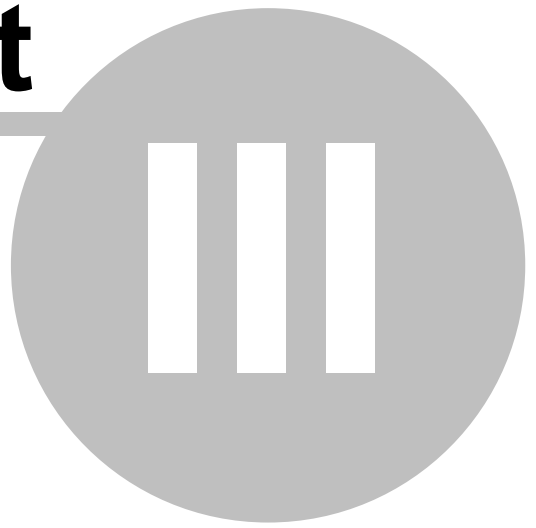
"TXT" creates an Html document with the spool-file which is shown. The screen could look the following way:

15-06-11 16:23:10

PRODUCTID	PRODUCTNAME	UNITSINSTOCK	Lagerk
24	Guaraná Fantástica	20	
25	NuNuCa Nuß-Nougat-Creme	76	6
26	Gumbär Gummibärchen	15	2
27	Schoggi Schokolade	49	12
28	Rössle Sauerkraut	26	7
29	Thüringer Rostbratwurst	0	
30	Nord-Ost Matjeshering	10	1
31	Gorgonzola Telino	0	
32	Mascarpone Fabioli	9	1
33	Geitost	112	1
34	Sasquatch Ale	111	9
35	Steeleye Stout	20	2
36	Inlagd Sill	112	12
37	Gravad lax	11	1
39	Chartreuse verte	69	7
64	Wimmers gute Semmelknödel	22	4
67	Laughing Lumberjack Lager	52	4
69	Gudbrandsdalsost	26	5
71	Fløtemysost	26	3
72	Mozzarella di Giovanni	14	2
73	Röd Kaviar	101	9
75	Rhönbräu Klosterbier	125	5
77	Original Frankfurter grüne Soße	32	2

* * * E N D O F R E P O R T * * *

Part



3 Work with queries

3.1 Latest queries

Application Your latest queries shows a sorted list with the latest queries run by the user (thru IceQuery).

When selecting a record and using left mousebutton a new tab with the Run query with option application will be shown.

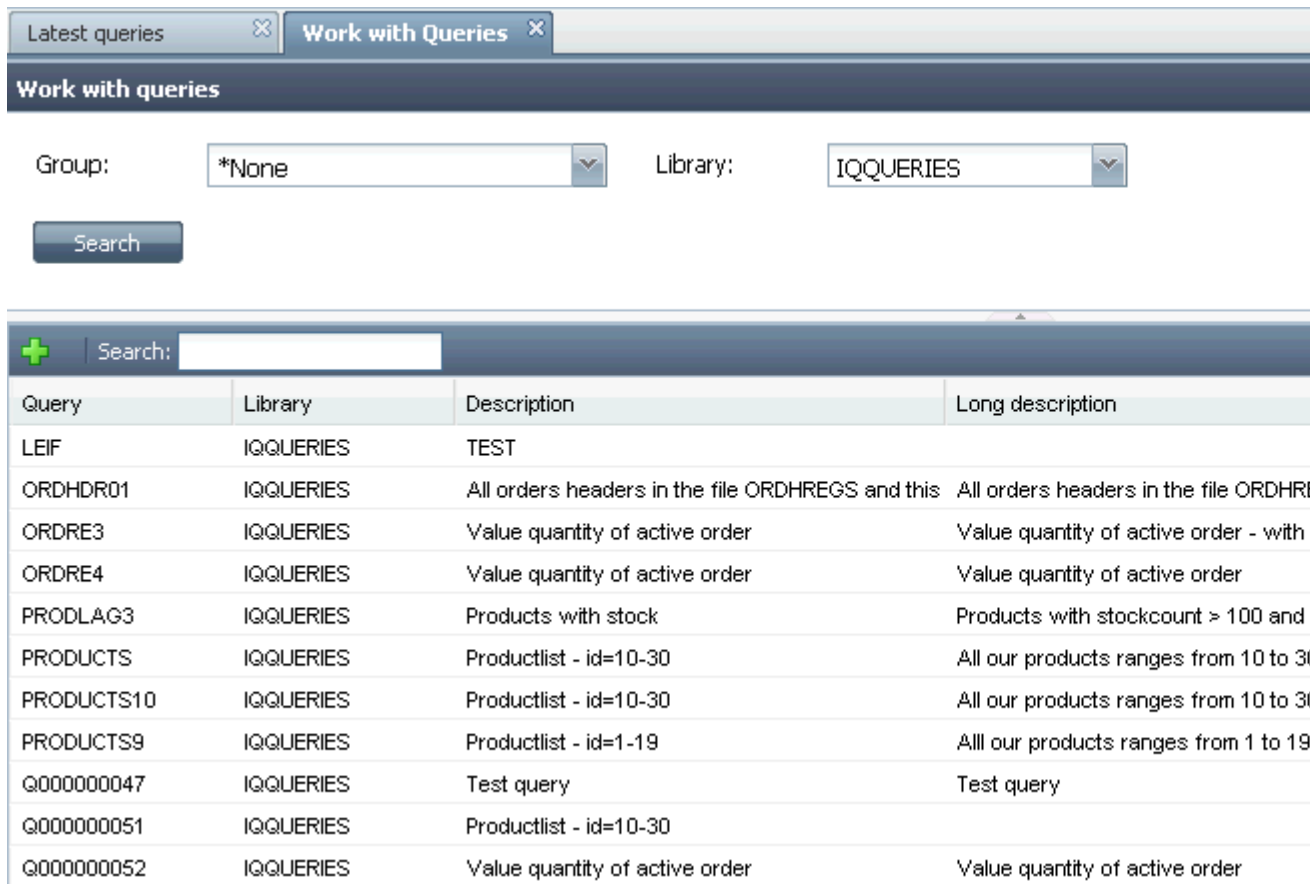
When using right mousebutton a record menu will be shown. This menu has the following possibilities:

- "Run" - to execute query with options (se Run query with option)
- "Run as..." - "5250" - execute query to 5250 (thru Icecap)
- "Run as..." - "Print" - Execute query to print
- "Run as..." - "File" - Execute query to file
- "Run as..." - "Chart" - Execute query to chart
- "Run as..." - "HTML" - Execute query to HTML table
- "Run as..." - "Excel" - Execute query to Excel spreadsheets
- "Run as..." - "CSV" - Execute query to XML document
- "Run as..." - "XML" - Execute query to XML document
- "Run as..." - "PDF" - Execute query to PDF
- "Run as..." - "TXT" - Execute query to TXT

It is possible to make this application "autostart" when user logs in. To do this - in systemapplication "Hives for Menu applications" just change Hive for MNU001F and PORTAL to Icequery.

3.2 Work with Queries

Application "Work with Queries" is used to run, create, change og delete queries on system. The application looks like :



Once the application is started you must select group and/or a library you wish to search queries in. You can only select between groups and libraries to which you have authority. After selecting group and/or library you get a list of all the queries that exists in the selected group and library.

If you select Group = <selection> and a Library = <selection> the list would show all queries in the selected group in the selected library.

If you select Group = *None and a Library = <selection> the list would show all queries in the selected library.

If you select Group = <selection> and a Library = *none the list would show all queries in the selected group.

If you select Group = *None and a Library = *None the list would show nothing (you must select something!).

It is now for each query possible through rightclick menu to:

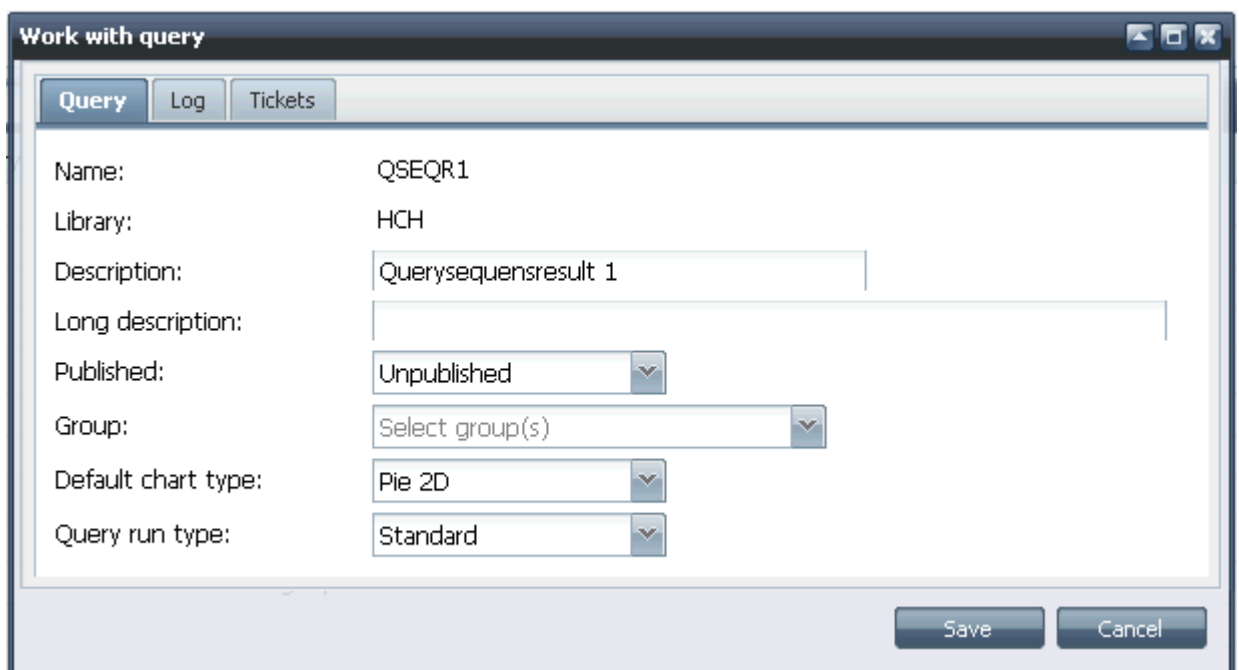
- "Publish" - change description, publishing information and the location of groups
- "Unpublish" - change the publishing information to "not published"
- "Query functions..." - "Copy" - copy the query definition to a new query
- "Query functions..." - "Change" - change the query definition
- "Query functions..." - "Delete" - delete the query definition
- "Query functions..." - "Query sequens" - enter queries to run before this query
- "Query functions..." - "Extended selections" - create selections to enter before query run
- "MailChimp functions..." - "MailChimp setup" - setup how the query integrates to MailChimp (only shown if MailChimp is active)
- "MailChimp functions..." - "Run to MailChimp" - Run the query and update MailChimp with the data

- (only shown if MailChimp is active)
- "Run" - run the query with options (see Run query with option)
 - "Run as..." - "5250" - execute query to 5250 (thru Icecap)
 - "Run as..." - "Print" - Execute query to print
 - "Run as..." - "File" - Execute query to file
 - "Run as..." - "Chart" - Execute query to chart
 - "Run as..." - "HTML" - Execute query to HTML table
 - "Run as..." - "Excel" - Execute query to Excel spreadsheets
 - "Run as..." - "CSV" - Execute query to XML document
 - "Run as..." - "XML" - Execute query to XML document
 - "Run as..." - "PDF" - Execute query to PDF
 - "Run as..." - "TXT" - Execute query to TXT

All the menufunctions is described in the following.

Menufunction "Publish"

When performing option "Publish" - a maintenance-dialogue is shown - this looks as follows:



The screenshot shows a window titled "Work with query" with three tabs: "Query", "Log", and "Tickets". The "Query" tab is selected. The window contains the following fields and controls:

- Name: QSEQR1
- Library: HCH
- Description: Querysequensresult 1
- Long description: (empty text area)
- Published: Unpublished (dropdown menu)
- Group: Select group(s) (dropdown menu)
- Default chart type: Pie 2D (dropdown menu)
- Query run type: Standard (dropdown menu)

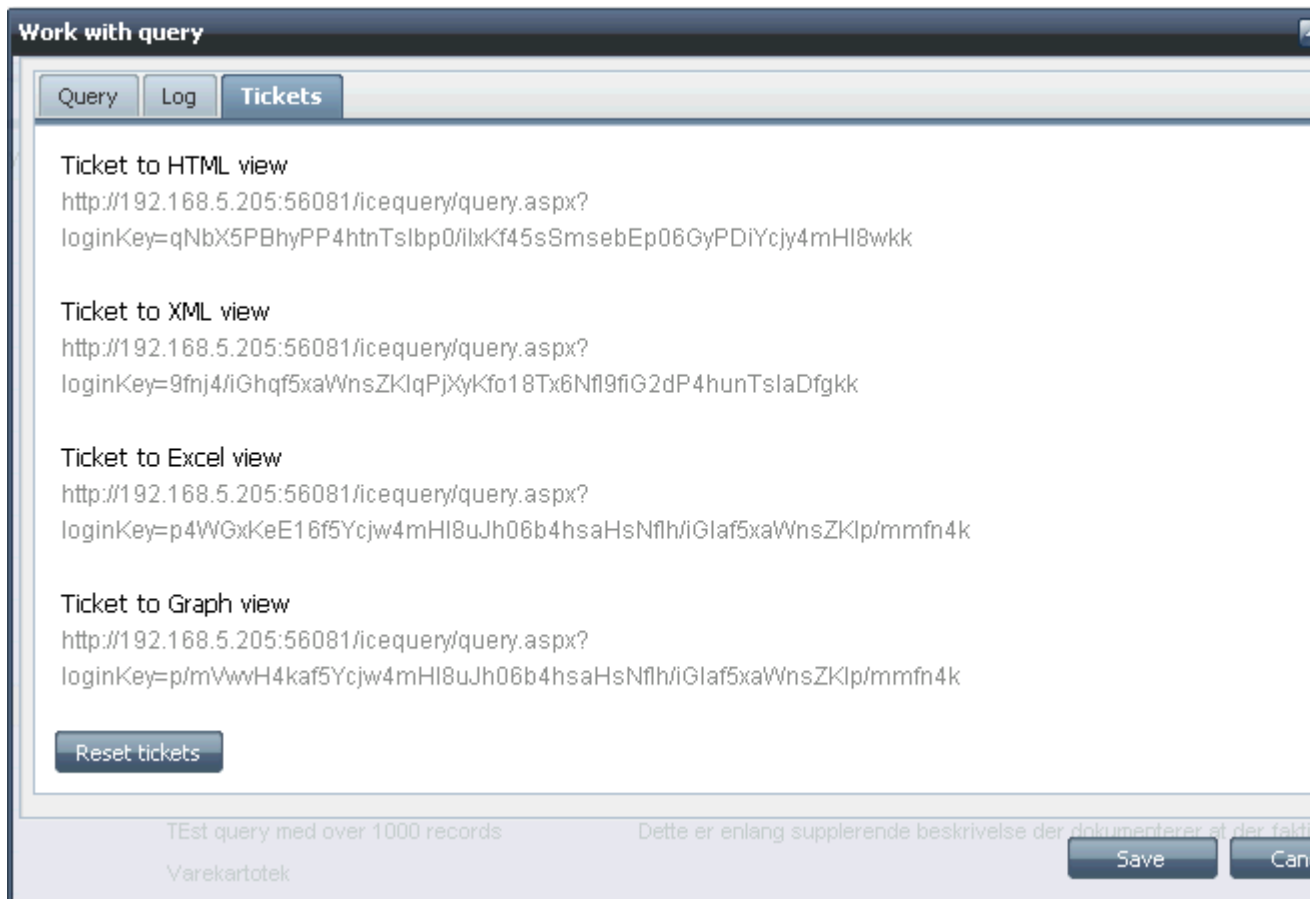
At the bottom right of the window are two buttons: "Save" and "Cancel".

When a query is marked as published and one or more groups has been marked, the query would be put on the menu under Run Queries . When publishing an query it must have at least one group marked !

"Default chart type" selects the default chart when showing charts.

"Query run type" is used to select between "Standard" and "With selection". If "With selection" is chosen the user will be presented with an selection panel before the query is run. The selection panel is defined under "Extended selections".

The page "Tickets" looks like this:



The tickets can be used to view the query without logging in. The user can cut and past the tickets in a mail to an other use and this user will then be able to run and see the result without logging in to i Icequery. Restrictions to queries will not apply to the query when using tickets because the user is not logged on. The Ticket will be valid ontill the issuer of the ticket push the button "Reset Ticket" - then new tickets will be generated and the old tickets will be declined.

Menufunction "Publish"

When performing option "Unpublish" in the right click menu the query is marked as unpublished.

Menufunction "Query functions..." - "Copy"

When performing "Copy" the user will create an copy of the query and edit this copy.

Menufunction "Query functions..." - "Change"

When performing "Change" the user will be able to change the query using Icecap.

Menufunction "Query functions..." - "Delete"

When performing "Delete" the user will delete the query - both in Icequery and the definition on the Iseries.

Menufunction "Query functions..." - "Query sequens"

When performing "Query sequens " the user will be able to enter queries which will be executed before this query.


The application to enter query sequens is started in a new panel and looks like this :

Work with query sequens

Library: HCH Query: QSEQR1 Description:

Page 1 of 1   Search:

Sequens	Query	Library	Active
10	QSEQ01	HCH	X
20	QSEQ02	HCH	X

The queries would be executed by the sequens number. The query must be marked as active before it is executed. New queries is created with the  in the toolbar.

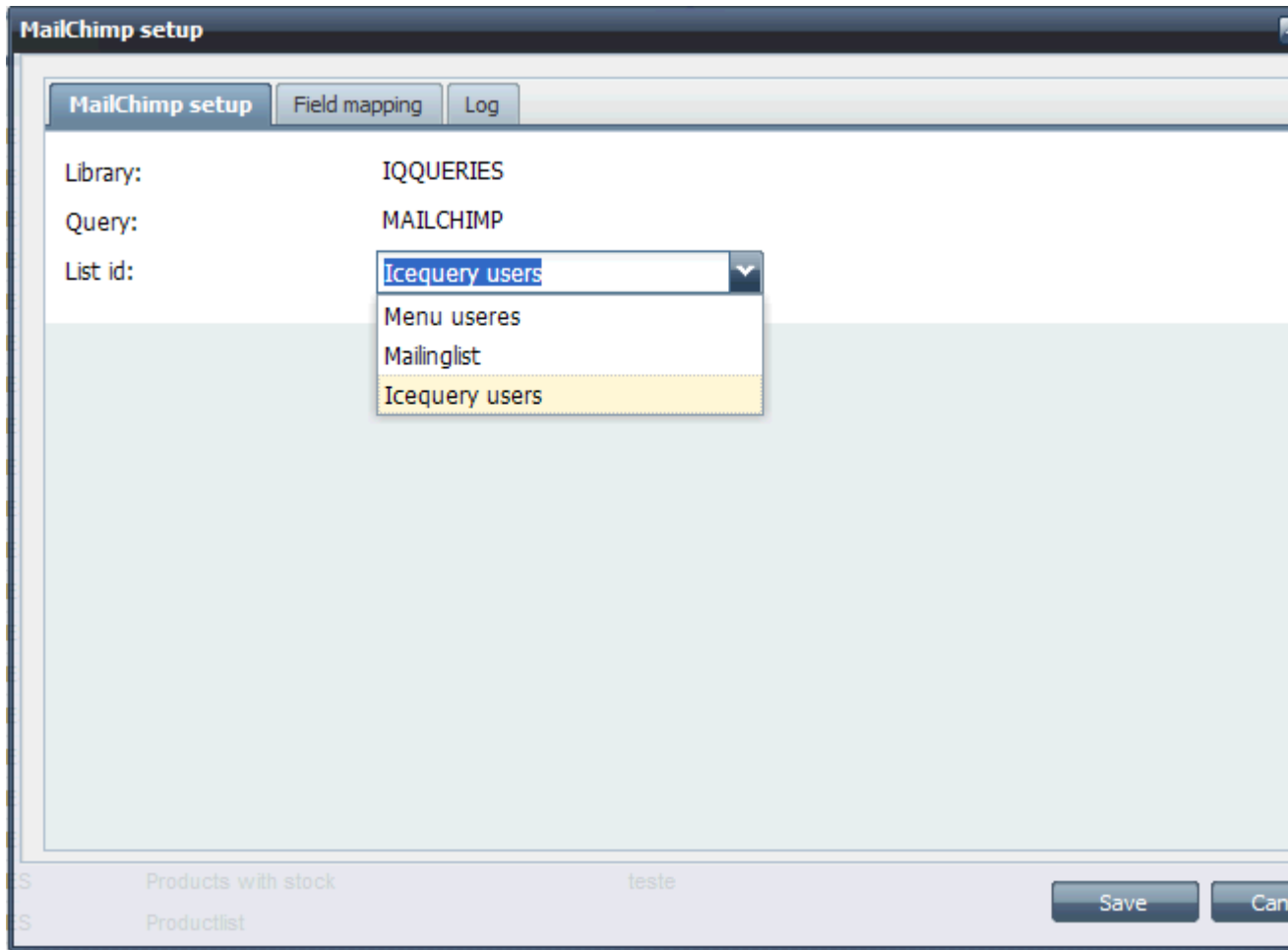
Menufunction "Query functions..." - "Extended selections"

When performing "Extended selections" the user will be able to create a selection panel which will pe presented to the user when the query is run. This is not implemented yet.

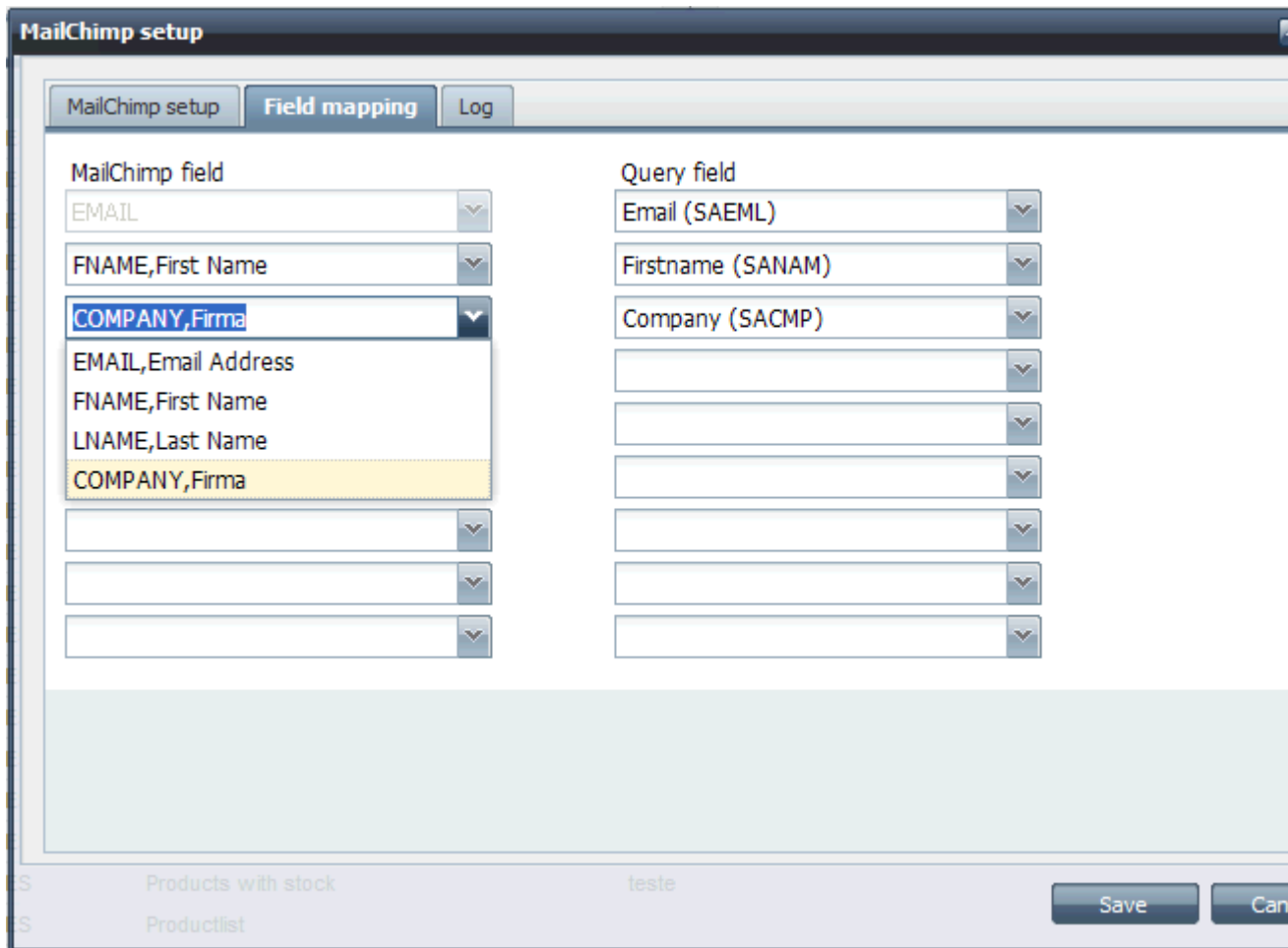
Menufunction "MailChimp functions..." - "MailChimp setup"

Only possible if MailChimp integration is setup properly - see "MailChimp Setup" in administration. Please note that you has to manuel create the list(s) in MailChimp before setting up the integration in IceQuery !.

Used to setup witch MailChimp list this query will update and how fields are mapped. First you must select the list to update - all your list in MailChimp would be shown dynamicly. The dialog looks like :

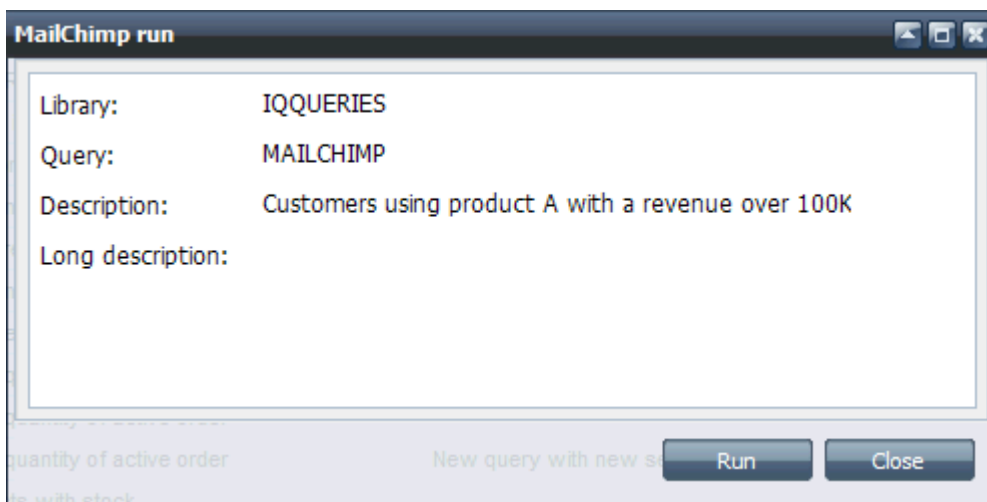


After selecting the list you will be able to map fields - all fields from the list can be selected and updated. The dialog looks like :



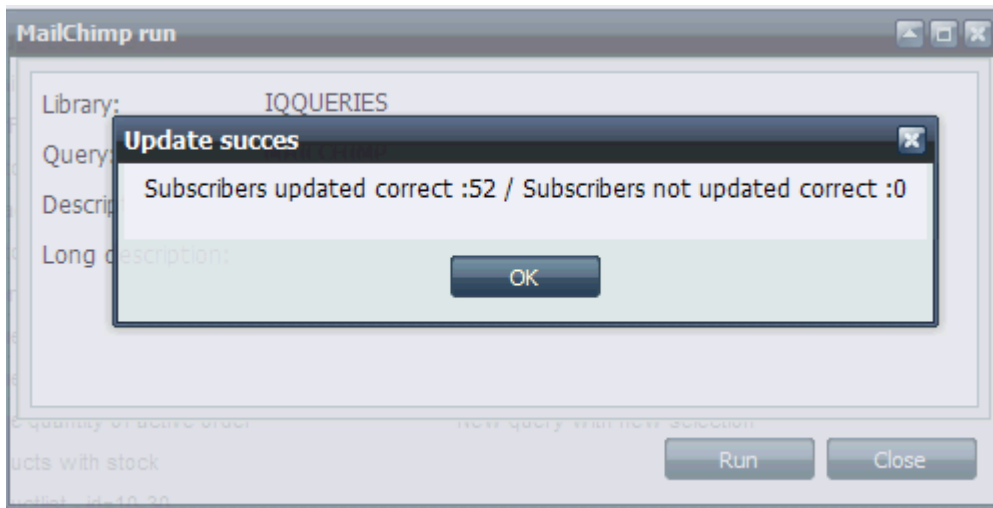
Menufunction "MailChimp functions..." - "Run to MailChimp"

This menufunction runs the query and updates MailChimp with the data after you confirm the action. To confirm the action, push "Run" in the dialog:



The update will run interactively and when finished it will show the number of updated records/the number

of records in error. The message looks like :



You can now push the "OK" button and close the "MailChimp run" dialog.

Menufunction "Run" and "Run as...."

See Run query with option for a detailed description of the difference output.

3.3 Work with Query Files

Application "Work with Query Files" used to work with queryresults created in Icequery. The application looks like this:

Work with Query-files					
Page 1 of 1		Search: <input type="text"/>			
Run date	Run time	Filetype	Status	Query Library	Query
2011-06-15	16:23:14	Spool	Ready	IQQDEMO	PRODLAG
2011-06-15	15:03:52	Spool	Ready	IQQUERIES	PRODUCTS9
2011-06-15	15:01:51	PDF	Ready	IQQDEMO	PRODLAG
2011-06-15	15:01:01	CSV	Ready	IQQDEMO	PRODLAG
2011-06-14	10:21:17	Spool	Ready	IQQUERIES	PRODUCTS9
2011-06-14	10:02:44	HTML	Ready	IQQDEMO	ORDRE1
2011-06-14	09:58:30	Excel	Ready	IQQDEMO	ORDRE1
2011-06-14	09:51:08	File	Ready	IQQDEMO	ORDRE1
2011-06-14	09:50:14	Spool	Ready	IQQDEMO	ORDRE1
2011-06-13	20:56:22	PDF	Ready	IQQDEMO	ORDRE1
2011-06-13	20:53:02	Spool	Ready	IQQDEMO	ORDRE1
2011-06-13	20:32:39	Spool	Ready	IQQDEMO	PRODLAG
2011-06-13	17:59:03	PDF	Ready	IQQDEMO	PRODLAG
2011-06-13	17:28:47	Spool	Ready	IQQUERIES	PRODUCTS
2011-06-13	17:12:09	HTML	Ready	IQQUERIES	PRODLAG3

The list would include query files generated by the user and query files generated by other users to which the user(group) has been given acces. Acces to query files is given thru the editing the query files. The query files need to be published before other users than the owner can use it.

In the list it is for each query possible through rightclick menu to:

- "Change" - Change the query files in IceQuery (Description, publishing and the location of groups)
- "Delete" - Delete the query files in IceQuery and on iSeries

If the filetype is a "File" the user would have the following options:

- "Show as..." - "5250" - execute query to 5250 (thru Icecap)
- "Show as..." - "Print" - Execute query to print
- "Show as..." - "Chart" - Execute query to chart
- "Show as..." - "HTML" - Execute query to HTML table
- "Show as..." - "Excel" - Execute query to Excel spreadsheets
- "Show as..." - "CSV" - Execute query to CSV document
- "Show as..." - "XML" - Execute query to XML document
- "Show as..." - "PDF" - Execute query to PDF
- "Show as..." - "TXT" - Execute query to TXT

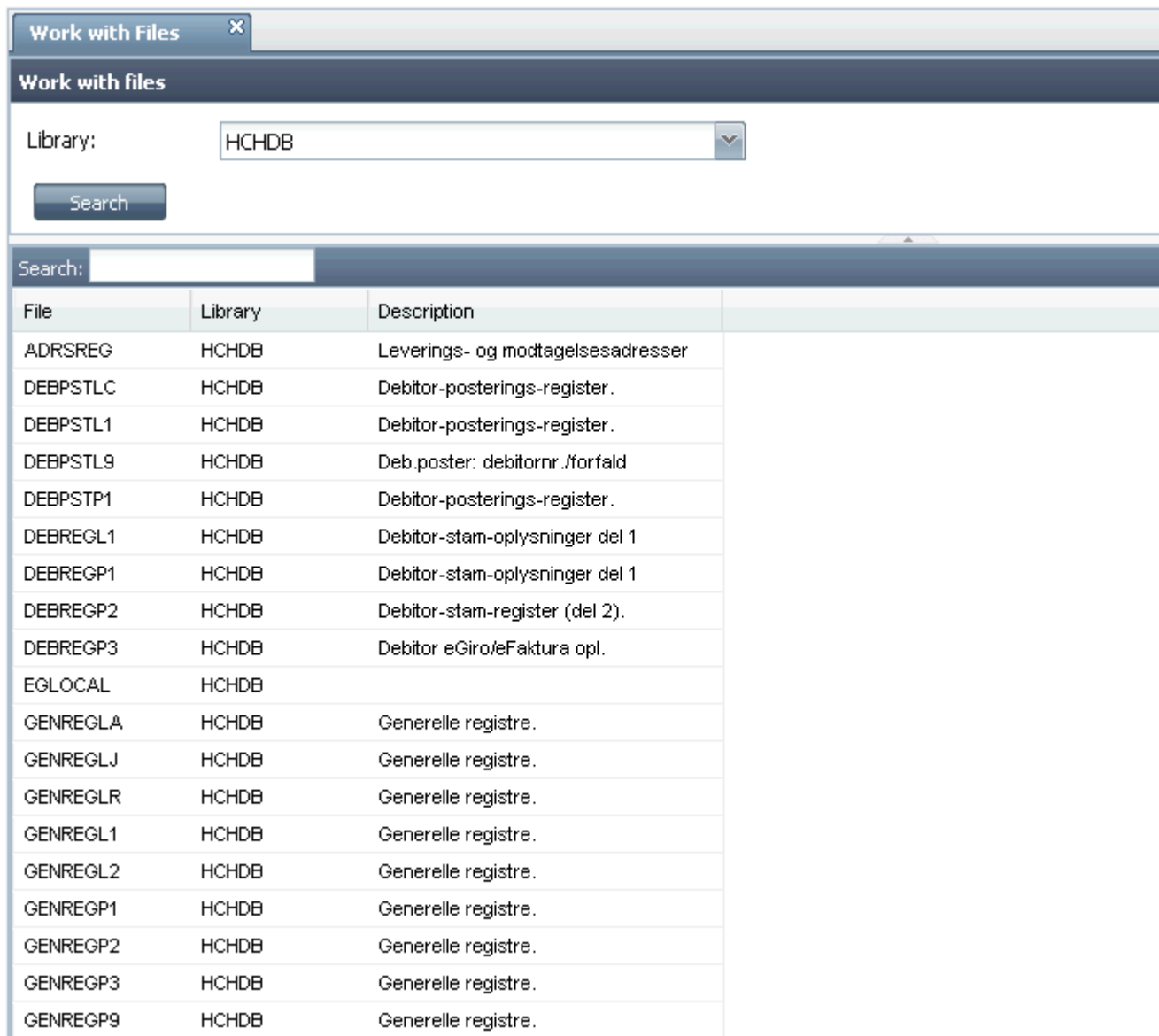
If the filetype is anything else than "File" the user would have the following options:

- "Show document" - show the document

See Run query with option for a detailed description of the difference output.

3.4 Work with Files

Application "Work with Files" is used to make a query on an existing file in Icequery. The application looks like this:



First the user has to select a library to list. After selecting the library the user must push the button "Search" and then the grid will show all the files in this library.

In the list it is for each file possible through rightclick menu to:

- "Create query" - creates a new query on the file
- "Display as..." - "5250" - execute query to 5250 (thru Icecap)
- "Display as..." - "5250 with selection" - execute query to 5250 after the user has changed the selection (thru Icecap)
- "Display as..." - "Print" - execute query to print
- "Display as..." - "Chart" - execute query to chart
- "Display as..." - "HTML" - execute query to HTML table

- "Display as..." - "Excel" - execute query to Excel spreadsheets
- "Display as..." - "CSV" - execute query to CSV document
- "Display as..." - "XML" - execute query to XML document
- "Display as..." - "PDF" - execute query to PDF document
- "Display as..." - "TXT" - execute query to TXT document

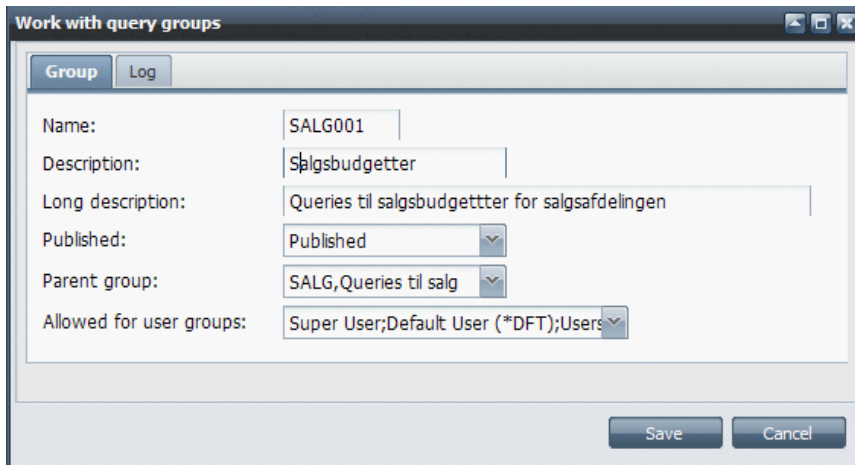
See Run query with option for a detailed description of the difference output.

3.5 Work with Groups

Application "Work with Groups" used to build the menu structure as shown under "Run queries". Only the levels is defined here. The queries in the levels is added later in the application "Work with Queries". Each level in the menu can include sub-levels, and queries.

A query group created by entering the name of the group, a description (it is displayed in the menu), an extra description, if the group has been published (if not then it will not appear in the "Run Queries" menu), a query group in which this query group might be subgrouped as well as the authorityclasses the user must have to view this query group in its menu.

Creation / Maintenance dialog appears as follows:



A Query group can only be level to a query group, but it is possible to give permissions to multiple users can view this.

The dialog box also contains a tab with a log that tells you who created it and who last edited it.

Note: if a user via its user groups have permission to display a query group in its "Run queries" menu so he also has access to all the queries offered by this query group - regardless of whether he has authorized the library as query lies in or access to the Library and files as query uses!.

3.6 Work with Restrictions

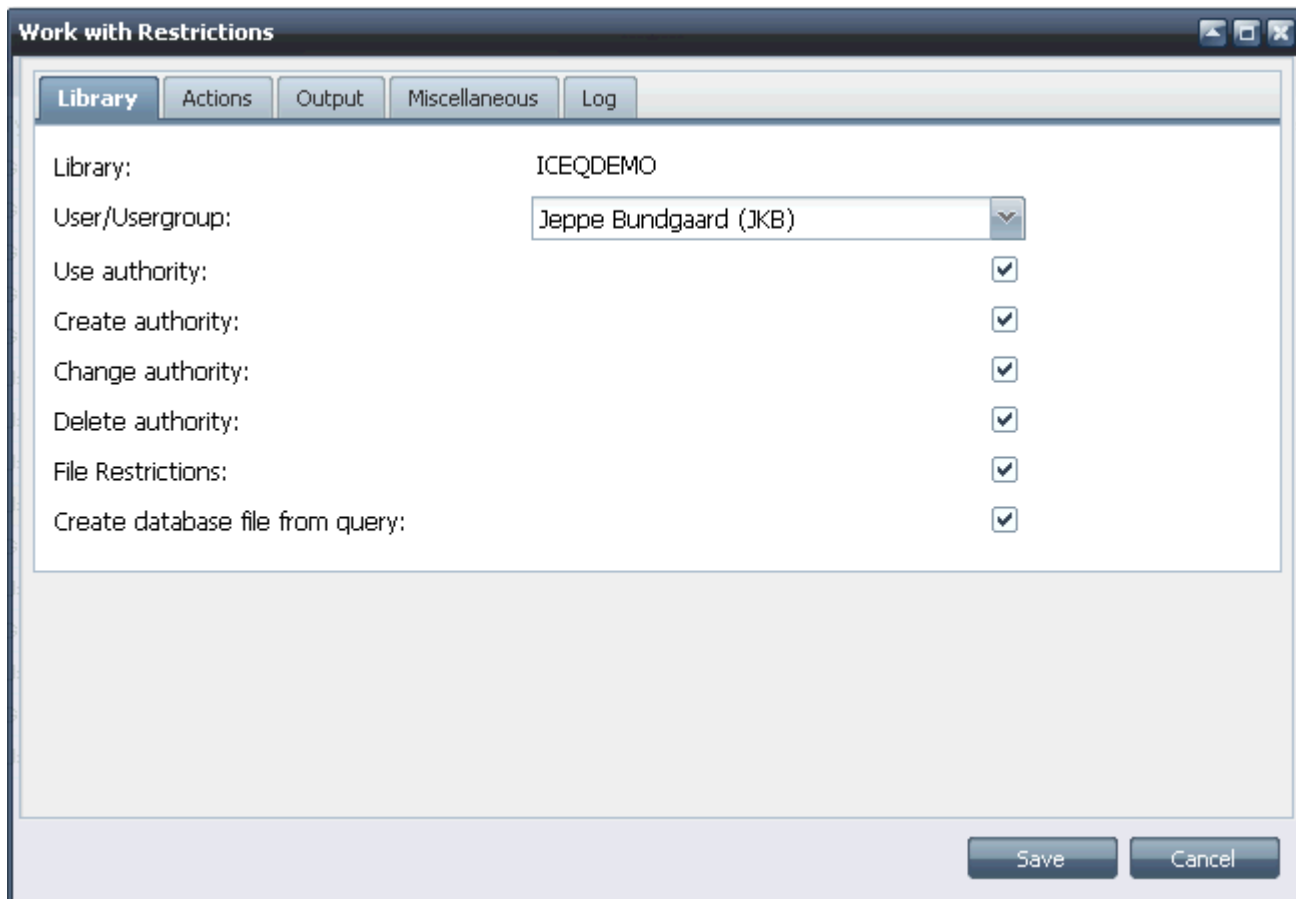
Application "Work with Restrictions" is used to assign authority for using libraries and files. Authority can be assigned in general, to user group or to user.

The application looks as follows:

Library	Type	User/Usergroup	Use	Cr
*ALL	General	*none		
*ALLUSR	General	*none		
*CURLIBL	General	*none		
*LIBL	General	*none		
*USRLIBL	General	*none		
ADRESSER	User	Bent Rønne (BRO)	X	X
ADRESSER	User	Jeppe Bundgaard (JKB)	X	X
ADRESSERQ	User	Bent Rønne (BRO)	X	X
ICEQDEMO	User	Jeppe Bundgaard (JKB)	X	X
IQQDEMO	General	*none	X	
IQQDEMO	Usergroup	Super User	X	X
IQQFILES	General	*none		
IQQFILES	Usergroup	Super User	X	X
IQQUERIES	General	*none	X	X
IQQUERIES	Usergroup	Super User	X	X

In the toolbar it is possible to create new restrictions () and to reload restrictions for the logged in user ()

Dobbelt click at an record brings up the maintenance dialog. Maintenance dialog looks as follows:



For page 1 - "Library" - each record can be given authority to:

- Use Authority to queries in the Library
- Creation of queries in the Library
- Change of queries in the Library
- Deleting queries in the Library
- Use Authority to files in the Library
- Authority to create DB2 files from query in the library

For page 2 - "Actions" - each record can be given authority to:

- Run the query
- Edit the query before run
- Edit selection before run
- Create copy and edit

For page 3 - "Output" - each record can be given authority to:

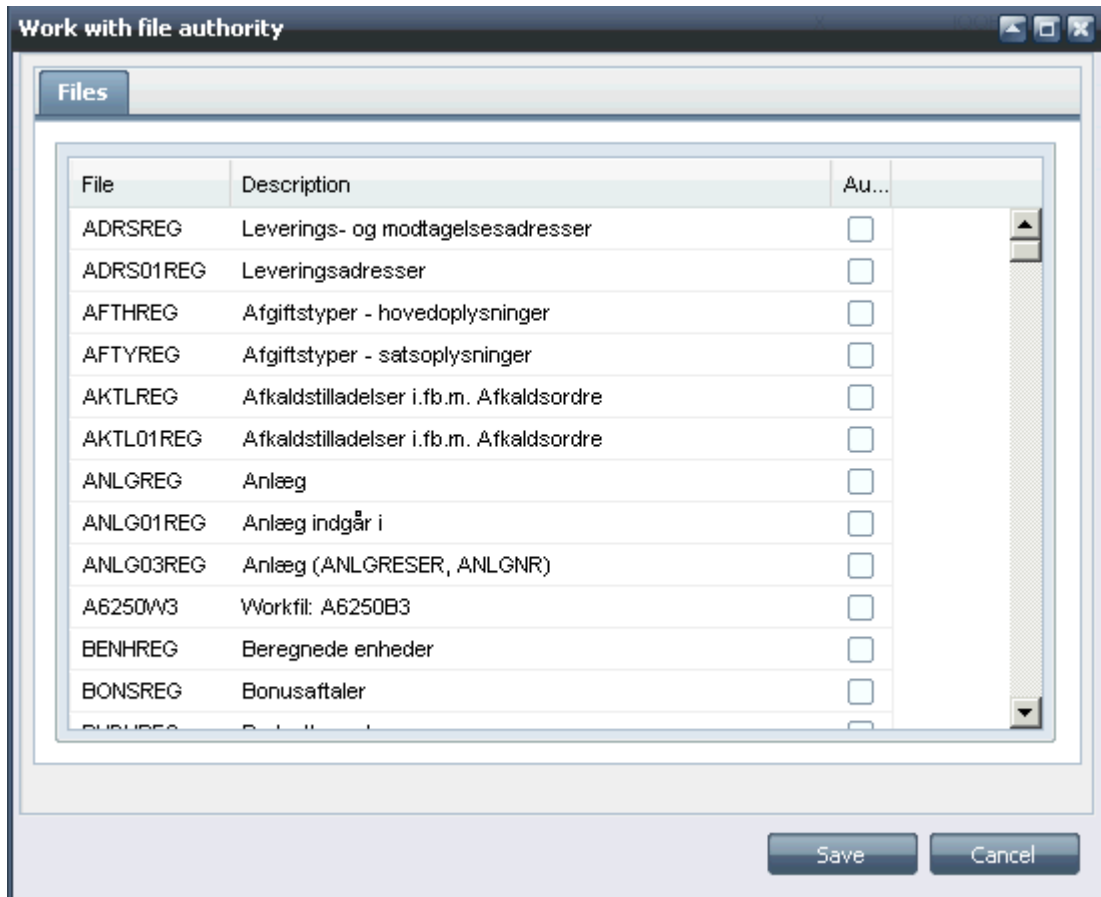
- Run the query to 5250 output
- Run the query to print output
- Run the query to file output
- Run the query to HTML output
- Run the query to XML output
- Run the query to CSV output
- Run the query to Excel output
- Run the query to Chart output
- Run the query to PDF output
- Run the query to Spool output

- Run the query to PDF output

For page 4 - "Miscellaneous" - each record can be given authority to:

- Save the result as a query file

After the creation is not possible to change the library, but you will now have right-clickmenu option where it is possible to give permissions to individual files in the chip library. This dialogue is as follows:



If no files is selected, it means that all files in the Library can be used. After just one file is checked it means that only the checked files can be used.

It is possible to create use authority on library teams *ALL *USRLIBL, *USRLIBL, *LIBL and *CURLIBL. Authority for establishment, modification or deletion has no effect in these library groups and it is not possible to select files.

How does the libraryauthority work

When creating authorities on files you have the option to create authority in general, on user groups and on a single user. The authority used is the authority found on the most detailed level. If you on the general level allows a user to use all files in a library you can revoke these authorities on a higher level (user group og user). It is possible to have authorities on a library to come from more than one user group - in this case they are added together. So if one user group allows a user to access files in a library and another usergroup doesn't - then the user will have access to these files.

You too have the option to create authority on librarylists like *ALL *USRLIBL, *USRLIBL, *LIBL and *CURLIBL. If you create authorities on librarylists it is not possible to select files so if you mark the checkbox "File authority" on at librarylist you will allow the user to use all files in all the libraries in the

librarylist.

3.7 Work with Icequery setup

The application "Work with Icequery setup" is used til setup difference parameters.

The application looks like :

The screenshot shows the 'Icequery setup' application window. The 'Email setup' tab is selected. The form contains the following fields:

- Senders name: System & Method
- Senders email: john@system-metode.dk
- cc: email: (empty)
- Mail system: Blueseries (dropdown menu)
- Default email font: Verdana (dropdown menu)

A 'Save' button is located at the bottom right of the form area.

On page 1 - "Email setup" the user can setup email.

On page 2 - "PDF setup" the user can setup PDF and enter where PDF-files are saved. If the option "Save PDF files" is selected ALL shown PDF-files is saved !

On page 3 - "Spool setup" the user can setup Spool and enter where Spool-files are saved. If the option "Save Spool files" is selected ALL shown spoolfiles is saved !

On page 4 - "HTML setup" the user can setup HTML and enter where HTML-files are saved. If the option "Save HTML files" is selected ALL shown HTML files is saved ! It is also possible to enter the max. number of records returned by the query.

On page 5 - "XML setup" the user can setup XML and enter where XML-files are saved. If the option "Save XML files" is selected ALL shown XML files is saved !

On page 6 - "CSV setup" the user can setup CSV and enter where CSV-files are saved. If the option "Save CSV files" is selected ALL shown CSV files is saved ! It is also possible to enter the separator for the created CSV-file.

On page 7 - "Excel setup" the user can setup Excel and enter where Excel-files are saved. If the option "Save Excel files" is selected ALL shown Excel files is saved !

3.8 Start Query/400

Application "Start Query/400" allows you to work with the query applications on the iSeries thru IceCap.

When doing this the authoritys on files created in IceQuery will be used to control access to libraryes and files for the user.

Part

IV

4 Administration

4.1 Users

IceQuery uses the normal user setup from IceMenu with a extension. Icequery uses the normal usergroups from Icemenu to grant access to libraries, files, queries, Querygroups and queryresults.

On the user data Icequery has its own page with usersetupdata :

The screenshot shows a web-based configuration window titled "Opdater" (Update) with a sub-tab "IceQuery opsætning" (IceQuery setup). The window contains several configuration options:

- Ekstern bruger ('0'=Nej/'1'=Ja):** A dropdown menu currently set to "0".
- Kundenr.:** An empty text input field.
- Kan oprette 'Tickets' ('0'=Nej/'1'=Ja):** A dropdown menu currently set to "1".
- Mulighed for MailChimp ('0'=Nej/'1'=Ja):** An empty dropdown menu.
- API endpoint for MailChimp:** An empty text input field.
- API key for MailChimp:** An empty text input field.

At the bottom of the window, there are three buttons: "Gem" (Save), "Slet" (Delete), and "Fortryd" (Cancel). The window also shows a user name "Administrator" and a timestamp "11.03.2014 14:45".

It is possible to enter if a user is an external user and if so - a customernumber. If user is an external user he will have limited access to creating query resultfiles, Print and edit/copy queries. See "Customer replacement setup".

It is also possible to enter if the user can create tickets in "Work with Queries".

If you want to work with MailChimp integration you must enter "1" to "Possible to work with MailChimp". You must also enter API endpoint and API key to use when connecting to MailChimp. See "MailChimp setup". Please note that MailChimp is not a part of IceQuery standard, but must be brought separately.

Customer Replacement Setup

The customer number will replace the string "&CUSTOMERID" if this string is used as a selection in a query. The query could look like this:

Select Records

Type comparisons, press Enter. Specify OR to start each new group.
Tests: EQ, NE, LE, GE, LT, GT, RANGE, LIST, LIKE, IS, ISNOT...

AND/OR	Field	Test	Value (Field or value)
<input type="checkbox"/>	ORDHKLINNUM	EQ	'&CUSTOMERID'
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

Bottom

This means that it is possible to create a query with a result depending on the user logged on.

MailChimp setup

When using MailChimp you must first create an account by MailChimp. After creating this account you can log on to mail Chimp and get the API End point - see <http://apidocs.mailchimp.com/api/rtfm/> how to get the end point. You can then create a APIkey by selecting "Account" - "API Keys & Authorized Apps".

MailChimp

Account

Upgrade Plan or Buy Credits

Add-Ons

Integrations

MonkeyRewards

MailChimp Partner Discounts

Billing Statements

Username/Password & Security Settings

Contact Information

My Defaults

API Keys & Authorized Apps

Account Keys

Account Status

Get API key here

Create a new key by pushing the button "Add a key" and enter the created key at the user setup.

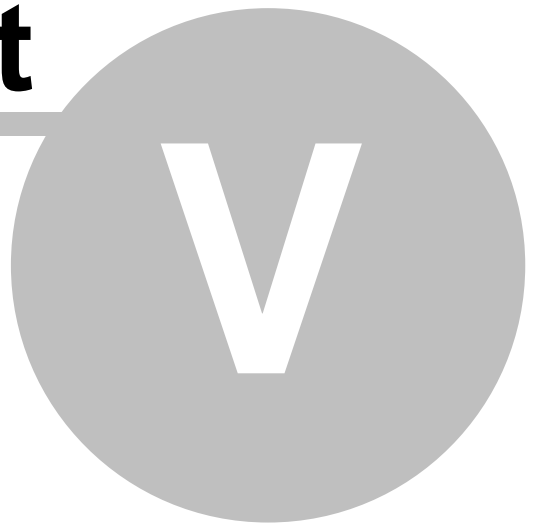
The screenshot shows the MailChimp Account page. At the top, there is a navigation bar with links for Dashboard, Campaigns, Lists, Reports, Autoresponders, and Account. A search bar is also present. Below the navigation bar, the word "Account" is prominently displayed. A notification bubble on the right says "Loooooooooooooooooooooosssss!!!!" with a monkey icon. Underneath, there are tabs for "API Keys" and "Registered Apps". The main heading is "API Keys". Below this, it says "Your API Keys" and shows a table with one entry:

Created	Label	API Key	QR Code	Status
Ju 04, 2011 08:28 am	/ none set	65c7f6585959df3c267ba71da8ca7eeb7-usc2		disable

Below the table is a blue button labeled "add a key". To the right of the table, there is a note: "API keys provide full access to your MailChimp account, so keep them private. [Tips on keeping API keys safe](#)". Further right, there is a section titled "About The API" with introductory text and a link "Dive into Your Site".

After this setup you will be able to work with MailChimp integration in "Work with Queries"

Part



5 Releases

Enter topic text here.

5.1 Release 93

Release date : 2011.01.27

New in this release :

- Printing queries
- Query to resultfiles
- Viewing resultfiles
- Use of Customernumber to make userdependend queries
- More "windowlike" access to Query (dropdowns and checkboxes)
- Support for Norwegian language

Remarks.

Convert the file IQH00 by calling program KONVIQH1.ASP

5.2 Release 94

Release date : 2011.02.07

New in this release :

- Select by Icons when selection run type and chart type
- Rightclick menu with submenu
- New Formating of HTML view
- New work with Files application

Remarks.

None

5.3 Release 95

Release date : 2011.03.11

New in this release :

- Restrictions on output functions and run functions
- "select all" and "Unselect all" when selection files restrictions
- External users is defined in userdata - not as result of customernumber

Remarks.

None.

5.4 Release 96

Release date : 2011.04.28

New in this release :

- New installation procedure. Installation now uses Icecap installations menufiles and should be used thru Icecap server.
- Name changed for navigation- and emuleationprogram to Icecap

Remarks.

None.

5.5 Release 97

Release date : 2011.05.23

New in this release :

- Support for query sequens - run more queries with one query
- Support for direct link to queries without log on
- International changes to installation procedure

Remarks.

None.

5.6 Release 98

Release date : 2011.06.15

New in this release :

- Support for CSV output
- Support for PDF output
- Support for Spool output
- New application - "Work with Icequery setup"
- Save HTML, XML, CSV, PDF, Spool and Excel as a file in "Work with Query files"
- Security on tickets
- Reload restrictions button in "Work with Restrictions"
- New charts added
- MailChimp Integration

Remarks.

None.

Part

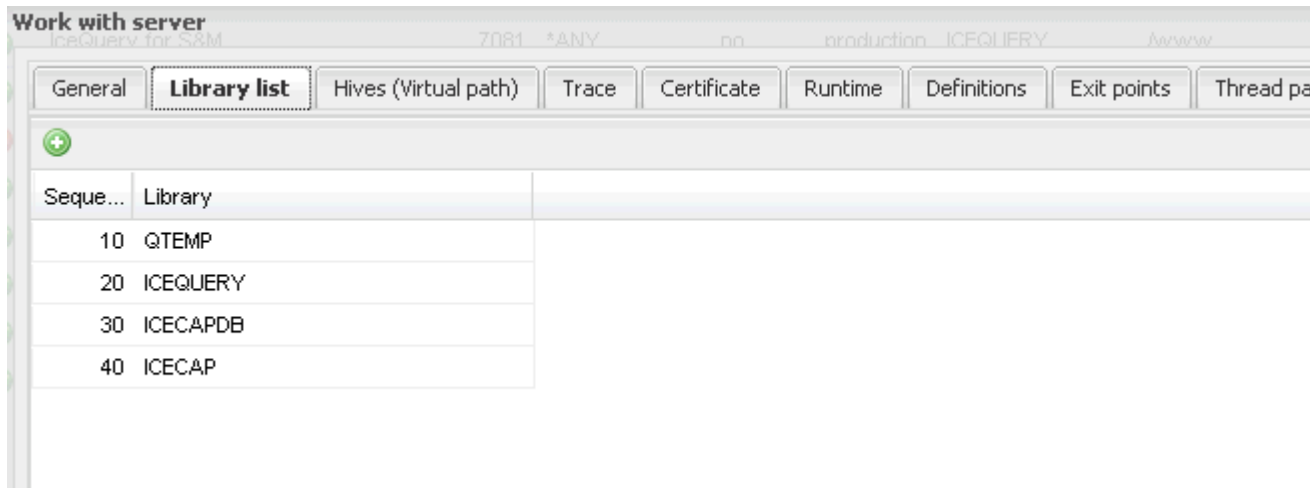
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6 Appendix

6.1 Technical installation documentation

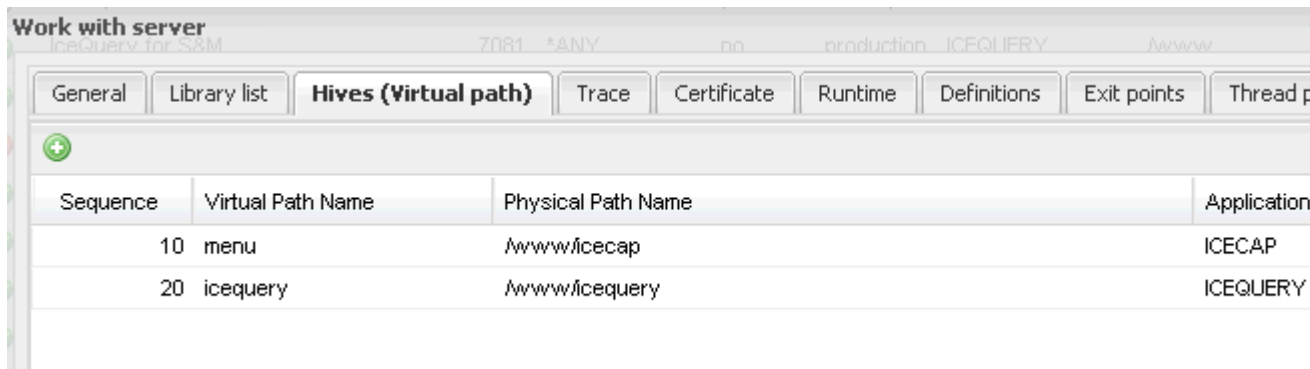
Librarylist for IceQuery server

The IceQuery server must include the following libraries in the librarylist : ICEQUERY, ICECAPDB and ICECAP. On the administration menu the librarylist for the server might look like :



Hives for IceQuery server

The IceQuery server must include the hives : menu and icequery. On the administration menu the server must be setup as:



IceQuery changes to IceCap_Config

The config file for Icecap (icecap_config.xml in Icecap servercatalog) must include the following configuration :

```
<iceQuery>
  <breakOut
    navigatorProgram="*LIBL/ICEQNAVI"
    emulatorProgram="*LIBL/ICEQEMUL"
    pcoProgram="*LIBL/USERPCO"
    deviceNameProgram="*LIBL/MYDEVICES"
```

```
    clientXtypesPath="/icequery/scripts/xtypes.js"  
    clientScriptPath="/icequery/scripts/breakouts.js"  
    varyoffExitProgram="*LIBL/VOFEXTPGM"  
  />  
</iceQuery>
```

6.2 Technical documentation

Enter topic text here.

Part

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7 Acknowledgements

IceBreak

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IceCap

Copyright (C) 2009-2010 System & Method A/S

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