

AdHoc Query Designer Usage Specification

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1. General

1.1 Description and requirements

ING ADHOC QUERY DESIGNER is a generic database SQL Query Builder, reading schema metadata from any available JDBC datasource. This tool is intended to create data views for applications and allow users to design and save sets of queries.

ING ADHOC QUERY DESIGNER server requires a PC with Microsoft Windows Server 2003/2008, or Unix with licenses for connections to appropriate Datasources. Running Apache Tomcat 6.0. This document will detail the implementation using an Oracle 10/11g Database to illustrate the technology.

2. ING ADHOC QUERY DESIGNER Functional Reference

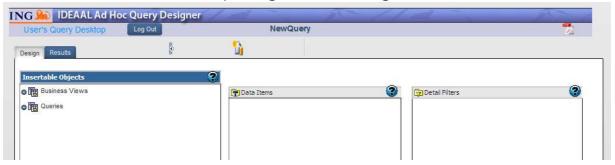
2.1 ING ADHOC QUERY DESIGNER Functionality

ING ADHOC QUERY DESIGNER performs following functions:

- Load metadata from data source creating schema trees.
- Navigate schema trees and drag and drop to business views (for departments Finance, Operations...)
- Manage User Groups and Administration rights
- Manage Groups
- Edit currently selected user Business View tree node.
- Drag and drop and edit data items and filters for query generation.
- Save Queries for individual users.
- Query execution and display in data grid.
- Export to Excel Sheet.

3. ING AdHoc Query Designer User Processes

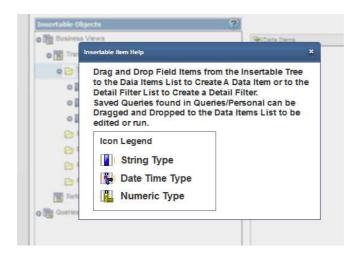
3.1 ING AdHoc Query Designer Main Design View

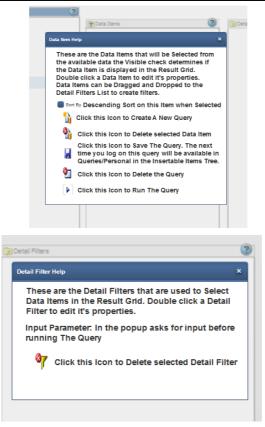


The User Interface has been designed to look like IBM Cognos as this application is meant to be invoked from within the Cognos Portal. It will be passed the User's name and Group from the portal the first time a user logs in a record for them is created with their name and group to map the appropriate Business view to the individual. This view is then loaded into the Insertable Objects tree The ICONS are identical to Cognos to avoid confusion.

3.2 ING AdHoc Query Designer Quick Help

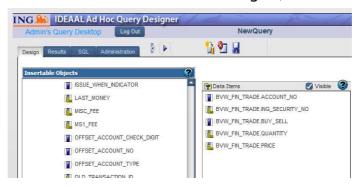
Click the (2) Icon in the upper right of each List/Tree for quick Help.





3.3 ING AdHoc Query Designer Creating a Query

Select then Drag and Drop to the Data Items List, Account_NO, BUY_SELL, ING_SECURITY_NO, QUANTITY and PRICE from the BVW_FIN_TRADE Data View. These can be done individually or selected as a group using the CTRL and SHIFT keys. Now Click the Execute Query Button to retrieve the results. Note all controls in AdHoc Query Designer including trees employ a Lazy Load (the data is only retrieved from the server the first time a user clicks on a Node or scrolls to the bottom of the data grid).

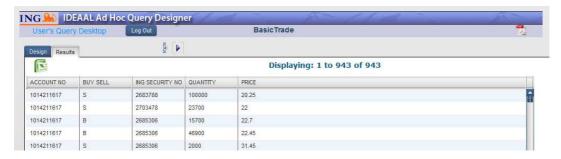


Data Items can be reordered by Dragging and dropping within the Data Items List.

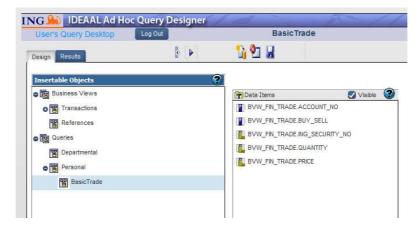
To save the query click the Save Query Button.



Call it BasicTrade click the Save Button, click the Execute Query Button to retrieve the data.

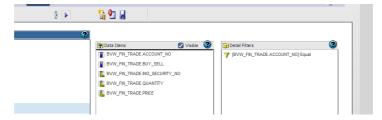


The new query will now appear under the personal queries list and can be dragged and dropped to the Data Items List to be run or modified.



3.4 ING AdHoc Query Designer Filter Editor

Drag and Drop from the Data Items List to the Detail Filters List to create a Filter.



Double Click the Filter to open its Editor.



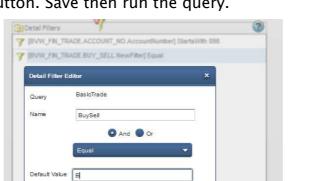
Filters have an and/or (and is assumed unless or is specifically selected) a condition and a default value.

Filters can be one of:

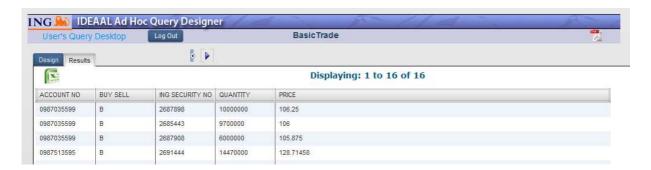
- Between (two values comma separated)
- Contains (value occurs anywhere within the string)
 Multiple (comma separated values %abc starts with abc% ends with %abc% contains abc equals)
- Equal
- Greater Than
- Greater Than/Equal
- Less Than
- Less Than/Equal
- Not Equal
- Starts With (string begins with)Ends With (string ends with)

In this case we want all the accounts that start with "098" click the Update Button. Save then run the query.

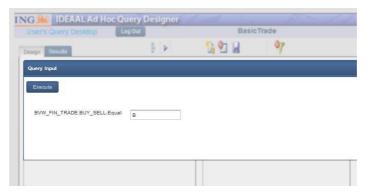




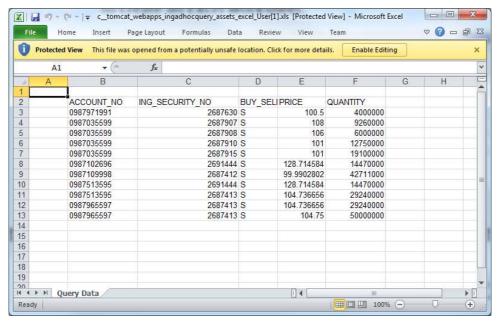
Return to Design Mode and add a BUY_Sell Filter = B click the Update Button. Save then run the query.



Return to Design Mode and modify the BUY_Sell Filter to be an input parameter click the Update Button. Save then run the query.



Now we will be asked for the BUY_SELL value before the query is run. Enter "S" and click on execute. Click the Export to Excel Button to create an Excel Worksheet.



This Worksheet will be sent to Excel on your local machine.