



# **Query Tool**

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# **Table of Contents**

Disclaimer	
Introduction: The Govern QueryTool	
Installing and Integrating the Govern QueryTool	
Running the Query Tool from Govern OpenForms	
Running the Query Tool from Govern for Windows	;
Running the QueryTool as a Standalone Application	
Prerequisites	
System Requirements	
Applications	
Setting Security for Your Queries	
The Govern QueryTool User Interface	. !
Customizing the Interface	
Govern Suite Button and Icons	
Queries Selection	
My Queries	
Public Queries	
Column Selection	8
Govern QueryTool Editor	8
Query Results	(
Conditions	10
Display Checkboxes	10
Show Entity Name	10
Top 100 Records Only	
Exporting Data	
Export Icons	
Defining Security Permissions	
Step I: Enabling the BED Business Models for Use in the QueryTool	
Step II: Setting Permissions by Role and User	
Step III: Define Permissions for the Query	
Creating Queries	20
Prerequisites	20
Building a New Query	20
Viewing the Query Results	23
Viewing the Results in the Grid	23
Organizing the Results	
Changing the Order of the Columns	
Removing Columns from the Results	
Adding Columns to the Results	
Grouping by Columns	2



Defining Security Permissions for the Query	27
Viewing the SQL Query Statement	28
Adding Notes	29
Duplicating a Query	
Deleting a Query	30
Renaming a Query3	30
Refreshing a Query	31
Adding Conditions 3	32
Filtering by Value	33
Filtering by Word	33
Combining Conditions	34
How to Add a Condition 3	34
How to Pemove a Condition	35



# Introduction: The Govern QueryTool



The Govern QueryTool is used for creating and running SQL selection queries in order to provide greater flexibility for performing searches.

**Note:** It is used for selection queries only. It cannot be used for action queries to add, update, or delete information from a database.

It can be integrated with both the Govern OpenForms and Govern for Windows product suites.

- Create and run new gueries.
- Run existing queries.
- · Change or add new conditions on the fly.
- See results immediately.
- Save queries for reuse.
- Share your gueries with other users or keep them private.

SQL experience is not required. You do not need to write SQL statements. Just select the database columns and view the results.

# Installing and Integrating the Govern QueryTool

The Govern QueryTool is automatically installed when you install Govern OpenForms and, if required, it is automatically updated when you update Govern.

If you want to run it outside of Govern, as a separate application or integrate it with Govern for Windows, you need to install it through Govern Deploy EZ. Refer to the Govern Deploy EZ guide for details.

#### **Running the Query Tool from Govern OpenForms**

You can open the QueryTool from the Govern ribbon and use it as you would use a predefined search. Run your query, load the results directly to the Govern tree view, and view them on your Govern forms.



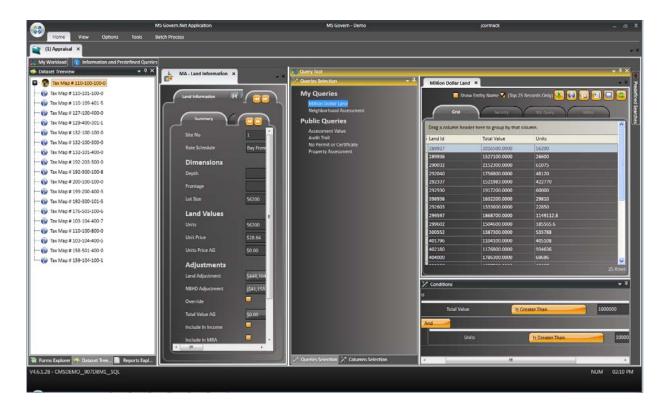
# Introduction: The Govern QueryTool

It is automatically integrated with Govern OpenForms as part of the default package. It does not require any further setup.

Anyone with the required permissions can run a query directly from Govern as follows:

To run a query:

- 1. Launch Govern.
- 2. Select View on the Govern Ribbon.
- 3. Select the QueryTool icon.



- 4. Select the query that you want to run.
- 5. Click the Load icon.

This loads your results directly to the Govern tree view. From there, you can open any form in the Profile as you would from a Predefined Search.

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#### **Running the Query Tool from Govern for Windows**

You can integrate the Govern Query Tool with the Govern for Windows Product Suite and open it directly from the user application. You can perform a search and export the results to the Govern tables: PC\_EXTERNAL, NA\_EXTERNAL, and PM\_EXTERNAL. See Integrating the Govern QueryTool with Govern for Windows on page 35.

# Running the QueryTool as a Standalone Application

You can use the QueryTool outside of Govern OpenForms or the Govern for Windows. Launch the QueryTool from your shortcut. The functionality and procedures are the same as using it from within Govern. However, you need to run it from Govern OpenForms or Govern for Windows in order to load the results of your queries directly to the dataset tree views.

## **Prerequisites**

This section lists the system requirements and applications that are required for setting up and running the Govern QueryTool.

#### **System Requirements**

For the requirements for the Govern Query Tool, refer to the Govern System Requirements 5.1 guide.

#### **Applications**

The following applications are required for the Govern QueryTool:

- Govern Deploy EZ: Govern Deploy EZ manages the installation and updates for all applications in the Govern OpenForms product suite. You can create a connection key to your Govern database through Deploy EZ.
- Govern Business Entity Designer (BED): The Govern Business Entity
  Designer is used for mapping the Govern database tables and columns to
  the Govern business models and entities that are used for building the end
  user forms. First, the business models are created. Then, business entities
  are added to the models. One or more entities can be added to a business
  model. The entities are mapped to tables in the Govern database. The

Page 3 © 2014 Harris Govern





Introduction: The Govern QueryTool

entities contain attributes. These are mapped to the database columns. Refer to the Business Entity Designer (BED) guide for further details. In the QueryTool, you create queries that are based on the same business models, entities, and attributes.

You need to enable the required business models, in the Business Entity Designer, that you want to use in the Query Tool. See...

 Govern Security Manager (GSM): The Govern Security Manager manages the security for the Govern OpenForms through the Govern Security Manager. Access to the QueryTool application, to the enabled business models, and entities is set in the GSM. See Step II: Setting Permissions by Role and User on page 16.

## **Setting Security for Your Queries**

Security for the queries that you use in the Govern QueryTool is defined at three levels:

- Business Models: You need to enable the business models in the Govern Business Entity Designer (BED) that you want to use in the Govern QueryTool. See Step I: Enabling the BED Business Models for Use in the QueryTool on page 13.
- QueryTool application, business entities, and entity sets: In the Govern Security Manager (GSM), the BED business models are referred to as entity sets. You can set the security for the application, the entity sets, and entities by role or by user. See Step II: Setting Permissions by Role and User on page 16.
- Queries: You can share your queries with selected roles and users or keep them private. See Step III: Define Permissions for the Query on page 17.

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# The Govern QueryTool User Interface

## **Overview**

This section provides an overview of the Govern QueryTool with its features and functions.

The following screen shot provides a quick tour of the Govern QueryTool UI.



**Minimize / Maximize the Ribbon:** The QueryTool runs along the top of the application. You can minimize the ribbon in order have more room for you queries.



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To minimize the ribbon, right click on it and select **Minimize Ribbon**.

## **Customizing the Interface**

As with all applications in the Govern OpenForms product suite, you can reposition the screens, dock them in different locations, or pin them on the side. Refer to the Govern General Information guide for complete details.

#### **Govern Suite Button and Icons**



The Govern Suite button is located in the top left corner of the interface. Click on the button to access the following menu items:

Alternatively, you can use the keyboard shortcut **Alt + F**.

**New Query:** Click **P New Query** to create a new query.

Alternatively, click the **hew** icon beside the Govern Suite button.

Alternatively, you can right click on **My Queries** and select **New Query** from the menu.

You can also use the keyboard shortcut **Alt + N**.

**Save:** To save a query, click **A** Save.

Alternatively, you can use the keyboard shortcut Alt + S.

**Save As...:** Click **Save As** to save the query under a new name.

Save All: Click Save All to save all queries.

Tip: Click Save All before exiting the Govern QueryTool.

**Delete:** Click **② Delete** to delete a query.

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Page 6

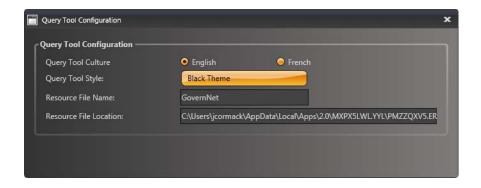
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#### Govern QueryTool



**Close:** Click **Close** to close the query that is open in the QueryTool editor.

**Options:** Click **Options** to open **Options** menu and change the language and theme or background of the QueryTool UI.



Select the language that you want to display in the QueryTool in the QueryTool Culture property.

Select the theme that you want to use for the QueryTool background in the QueryTool Style property.

The **Resource File Name** displays the name of the resource file used for the QueryTool.

The **Resource File Location** displays the location of the resource file used for the QueryTool.

Exit: Click Exit to exit the Govern QueryTool.

**Note:** Alternatively, double-click on the Govern Suite button to exit the Govern QueryTool application.

#### **Queries Selection**

Select Z Queries Selection Queries Selection at the bottom left of the interface if it is not already selected. This action displays the queries that are already created. These are listed under My Queries or Public Queries as follows:

Page 7 © 2014 Harris Govern





#### **My Queries**

This section lists all the queries that you have created regardless of whether you have shared them or kept them private. To share a query, open the Security tab and grant permissions to the roles and users accordingly.

#### **Public Queries**

This section lists the queries that other users have created and granted you permission. If you do not have permission to a query, it does not appear in this list.

**Note:** The queries that you create are always displayed under My queries regardless of whether you are sharing them or keeping them private.

For information about enabling a query for other users, see Defining Security Permissions for the Query on page 27

#### **Column Selection**

#### Govern QueryTool Editor

The Govern QueryTool editor displays the following information about the query or the entity and attribute selected on the left.

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- · Results of the query
- Conditions associated with the associated query
- Icons and tools for exporting data
- · Checkboxes for displaying the data

# **Query Results**

The results of the selected query are displayed on the following tabs:

- Grid: Results of the selected query
- Security: Access permissions for the query by role and user.

**Note:** Use this tab to share a query with selected roles and users.

- SQL Query: Statement in SQL
- Notes: Any additional information associated with the query

See Viewing the Query Results on page 23.

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#### **Conditions**

The conditions are used for limiting the results of the query. There are multiple condition types that you can add, including comparisons, such as greater than and less than, and other qualifiers, such as Begins with or Contains.

The Conditions are displayed at the bottom of the center screen.



For details, see Adding Conditions on page 32.

# **Display Checkboxes**

The following checkboxes are included for displaying the query results in the QueryTool editor.

#### **Show Entity Name**

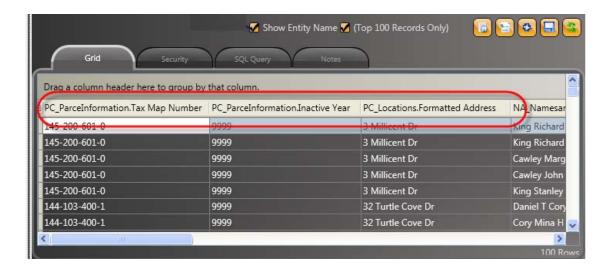
Select the Show Entity Name checkbox to display the Entity Name with the Database Column or attribute in the QueryTool editor.

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Page 10

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#### **Top 100 Records Only**

Select **Top 100 Records Only** to limit the number of records displayed in the QueryTool editor to 100. This is the default.

Deselect this option to display all results.

**Tip:** If you exporting data to Govern for Windows, you may want to deselect this option.

#### **Exporting Data**

You can export data from the Govern QueryTool to Microsoft Excel file format, XML, or to the Govern external tables.

#### **Export Icons**

The export icons are located at the top right of the interface.

**Export to XML:** Select this icon to export your data in.XML format for external applications. Then, enter a file name and select a directory. A message box appears. Click **Yes** on this message if you want to open the xml file immediately.

Page 11 © 2014 Harris Govern



#### The Govern QueryTool User Interface



**Export to Excel:** Select this icon to export the data as a Microsoft Excel spreadsheet. Then, enter a file name and select a directory. The Excel file opens immediately.

**Note:** Microsoft Excel must be installed on the same computer as the QueryTool.



**Export to Govern:** Click this icon to export the query results to one of the following tables for use in Govern for Windows:

The tables used for export are as follows:

- PC\_EXTERNAL: for results containing a P\_ID.
- PM\_EXTERNAL: for results containing an N\_ID.
- NA\_EXTERNAL: for results containing a PM\_ID use the PM\_EXTERNAL table to export to Govern for Windows.

If the both a P\_ID and an NA\_ID are included in the results the PC\_EXTERNAL table is used. PC\_EXTERNAL has a higher priority than the NA\_EXTERNAL.

If both an NA\_ID and a PM\_ID are included in the results, the NA\_EXTERNAL table is used.

If there is no P\_ID, NA\_ID, nor PM\_ID, an error message is displayed saying that the result could be different from the current data.

For information about the Govern for Windows configuration, see Integrating the Govern QueryTool with Govern for Windows on page 35.

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Page 12

Final Draft



# **Defining Security Permissions**



Access permissions to Govern QueryTool and to the queries are defined at three levels:

- The business models in the Business Entity Designer (BED)
- The Govern QueryTool application in the Govern Security Manager (GSM)
- The gueries in the Govern QueryTool.

# Step I: Enabling the BED Business Models for Use in the QueryTool

Queries are created in the QueryTool with the same business models that are used for building the Govern user forms. The first step is to enable these business models so that it can be seen in the Query Tool.

This is done by setting the **Use by Query Tool** property to **True** in the Govern Business Entity Designer (BED).

By default, this property is set to false for all business models and the models are not visible in the Govern Security Manager or the QueryTool. This is done to protect the sensitive data in the database.

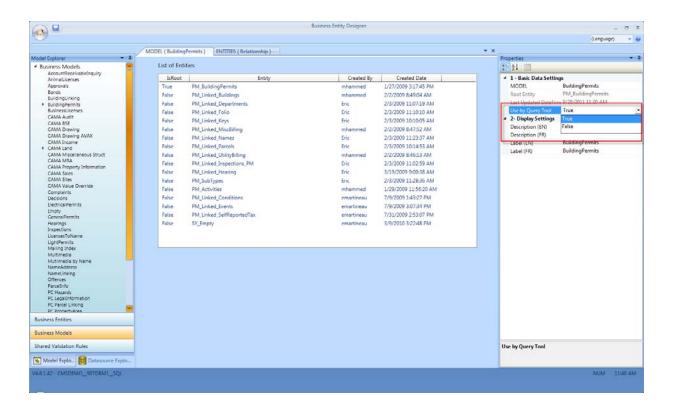
To set enable a business model for use in the QueryTool:

- 1. Launch the Business Entity Designer (BED).
- 2. Select Model Explorer > Business Models.
- 3. Select the business model that you want to use in the QueryTool.

Page 13 © 2014 Harris Govern



# Defining Security Permissions



- 4. Select **Use by Query Tool** under **Basic Data Settings** in the Property Explorer.
- 5. Select **True** from the drop-down menu.
- Click the Save icon .
   The green light appears in the Status Bar to indicate that the business model is updated successfully.
- 7. Repeat steps 3 to 6 for all the business models that you want to enable.

#### Synchronizing the GSM and Query Tool

After setting the business model for use in the Query Tool, you need to synchronize the BED with the Query Tool. Synchronizing updates the menus in the GSM and the QueryTool so that the business models are visible in both these applications.

Following synchronization, the enabled business models are displayed in the **Entities** and **Entity Sets** section of the QueryTool and you can set user access permissions.

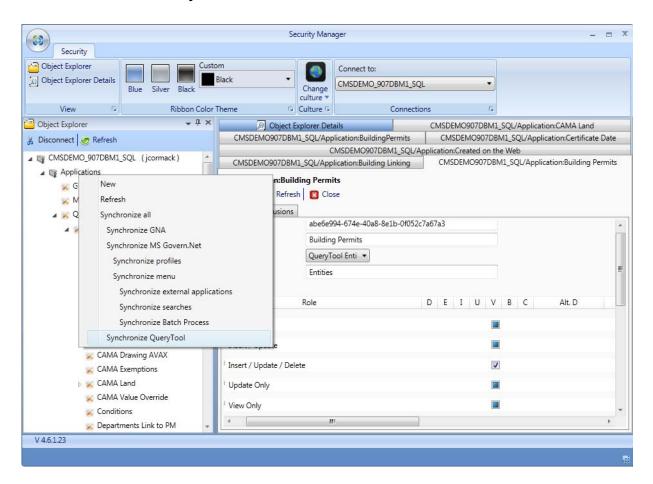
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#### **Govern QueryTool**



To synchronize the new changes to the business model with the GSM and the Query Tool:

- Launch the GSM.
- 2. Select the required database connection key in the Object Explorer.
- 3. Do one of the following:
  - Select Synchronize All.
  - Select Applications. Right click on QueryTool and select Synchronize.



A confirmation message appears.

4. Click **Yes** on the confirmation message.

Page 15 © 2014 Harris Govern



### Step II: Setting Permissions by Role and User

In the Govern Security Manager (GSM), security is set at four levels:

- Application
- **Entity Set**: Note that the BED business models are referred to as Entity Sets in the QueryTool.
- Business Entity
- Attribute

The first step is to grant permissions to the Query Tool. Then, verify or set up permissions for each business model (in the Entity Sets section), business entity, and attribute.

**Note:** Permissions and exclusions that you set for Govern do not apply automatically to the QueryTool. Ensure that you set all required permissions for the Query Tool.

When you grant permission to the QueryTool for a Role, members of the Role can access the Query Tool directly from the Govern Ribbon.



For further information about setting security permissions and exclusions, refer to the Govern Security Manager (GSM) guide.

#### **Running a Query Tool Query in Govern.NET**

To run a Query Tool query directly in Govern.NET:

- 1. Launch Govern.
- 2. Select View on the Govern Ribbon.
- Select the QueryTool icon.

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- 4. Select the query that you want to run.
- 5. Click the Load icon.

For more information about using Govern, refer to the Govern General Information guide.

# **Step III: Define Permissions for the Query**

Once permissions and exclusions are set in the GSM, you need to set permissions for each query in the Query Tool. In this tool, you can grant or exclude permission to update, view, and delete any query.

When you create a query it is displayed under **My Queries** in the **Queries Selection** treeview. The queries that are created by other users are displayed under **Public Queries**. You can change the permissions for queries in both sections.

When you grant view, update, or delete permissions to a query that you have created and that is displayed under **My Queries**, other users see it under **Public Queries**.

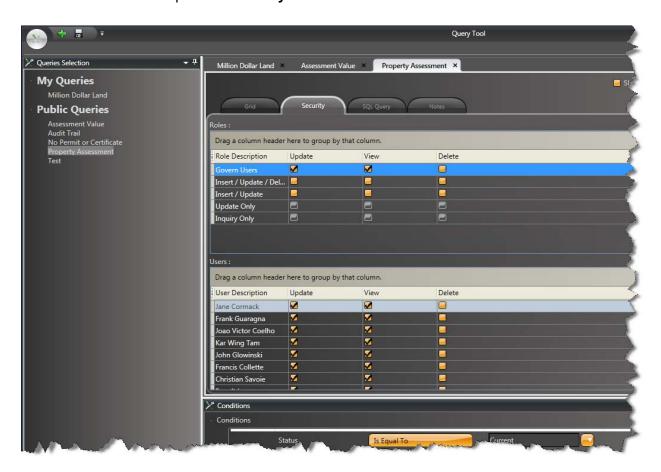
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**Note:** All the queries that you have created are displayed under My Queries regardless of whether you are sharing them or keeping them private.

To set permissions for the query:

- 1. Launch the Query Tool.
- 2. Open the Queries Selection tab.
- 3. Select the query for which you want to define permissions.
- 4. Open the Security tab.



The Roles are listed in the top section of the tab and the users in the lower sections. if you are not a member of a Role, the Role is disabled in the Query Tool and you are not able to set permissions for the query under that Role.

Select the permissions that you want to grant to the selected Role or user.

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Page 18

Final Dra

# Govern QueryTool



When you select Update or Delete, the View is automatically selected.

6. Click Save.

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# **Creating Queries**



This section describes how to create, configure, and build on a new query in order to retrieve the required results.

It includes the following subsections:

- Prerequisites on page 20
- · Building a New Query on page 20
- Viewing the Query Results on page 23
- Defining Security Permissions for the Query on page 27
- Viewing the SQL Query Statement on page 28
- Adding Notes on page 29
- Duplicating a Query on page 29
- Deleting a Query on page 30
- · Renaming a Query on page 30
- Adding Conditions on page 32

### **Prerequisites**

Before creating queries, ensure that the required business models are enabled for use in the QueryTool and that the user permissions are defined in the Govern Security Manager. See Defining Security Permissions on page 13.

# **Building a New Query**

To begin building a query:

1. Launch the Govern QueryTool.

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#### The Govern QueryTool





2. Select **Queries Selection** at the bottom of the left tree view to open the Queries Explorer.

This is the default.

- 3. Do one of the following:
  - Right click on My Queries and select New Query from the menu.
  - Click on the Govern Suite button and select New Query from the menu.
  - Click the New icon at the top of the interface.
  - Hit [Alt] + [N] on your computer keyboard.

The **New Query** dialog box opens.

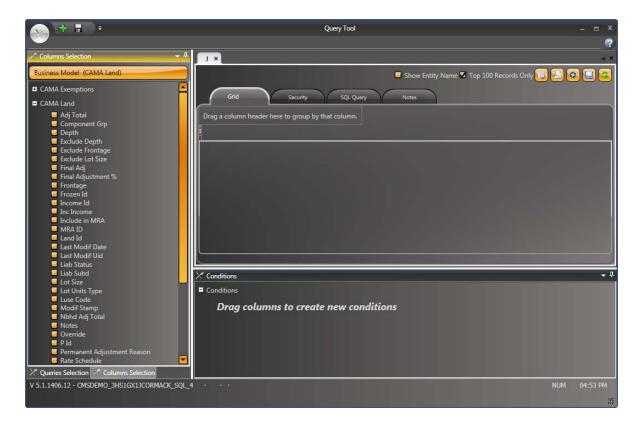


- 4. Enter a name for the query and click OK.

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#### **Creating Queries**



6. Select the business model from the drop-down list.

All the entities that are contained in the business model are displayed.

7. Select the required entity.

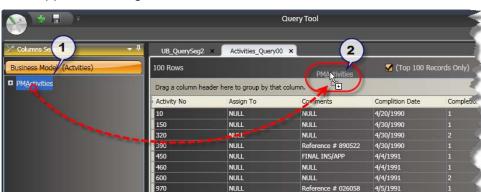
All the attributes, or database columns, that are contained in the entity are displayed.

All attributes that are part of the Business Entity on which the query is built, appear in the Column Selection List, as long as the following conditions are met:

- The user building the query has permission to view the attribute.
- The attribute is mapped to the database. Calculated fields, for example, are not mapped to the database and do not appear in the Column Selection List.
- 8. Select the required attribute.

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NULL

NULL

It appears in the grid.

9. Select all the attributes that you want to add to the query.

## **Viewing the Query Results**

The results of the selected query are displayed in the following tabs:

- Grid: Results of the selected query
- Security: Access permissions for the query by role and user.

**Note:** Use this tab to share a query with selected roles and users.

- SQL Query: Statement in SQL
- Notes: Any additional information associated with the query

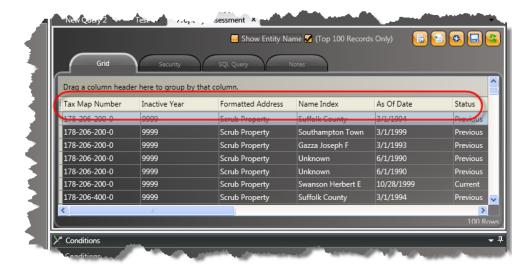
#### Viewing the Results in the Grid

By default, the query results open in the grid.

The columns that you selected are displayed across the top. The values from the database are displayed under the columns.

Page 23 © 2014 MS Govern





There are checkboxes for the following:

- Showing the Entity Name: Select this option to show the entity name with the column name.
- Dispelling the Top 100 Results: Select this option to limit the number of records to 100. Deselect it to show all the results from the database.

# **Organizing the Results**

You can change the order of the columns in the Grid tab of the Results and add or remove columns from the results.

#### **Changing the Order of the Columns**

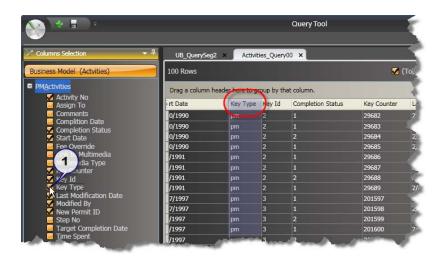
Select a column in the Grid results and drag it to a new position.

#### **Removing Columns from the Results**

To remove a column from the results, deselect the attribute in the Columns Selection list.

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#### **Adding Columns to the Results**

Expand the entity in the Column Selections tree view and select all the attributes that you want to add.

#### **Grouping by Columns**

You can group the results of your query by one or by multiple columns. For example, you may want to display the result by the last billing date, in order to view the records separately according to the billing period.



To group according to a LAST\_BILLING\_DATE:

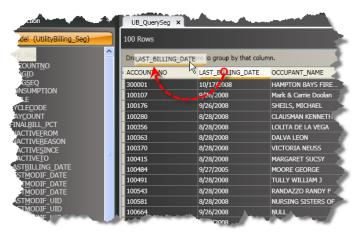
1. Open your query in the QueryTool.

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2. Select the LAST\_BILLING\_DATE column and drag it to the area marked **Drag a column header here to group by that column**.



The column heading is displayed with the number of different values contained in the column (Number of items.) Click on the plus sign (+) to expand the contact or the minus sign (-) to contract it.



You can group multiple column together in order to create subgroups. You can change the order of the order of the subgroups by dragging and dropping them to the right or to the left of the current position. This is the same as changing the position of the columns in the results grid.

Similarly, you can remove a subgroup by selecting it and dragging it outside of the column grouping.

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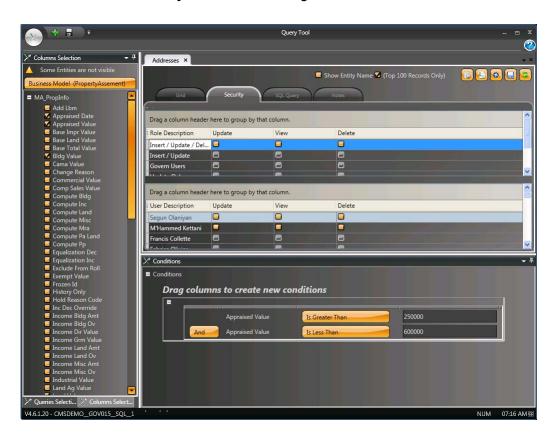
# **Defining Security Permissions for the Query**

The **Security** tab displays the security permissions for the roles and users in the Govern deployment.

When you create a query, it is private. If you would like other users within your deployment to use the guery, you can modify the permissions in the Security tab, role and / or by user.

To modify the security permissions.

- 1. Open the query in the QueryTool.
- 2. Select the **Security** tab in the results grid.



Roles are displayed in the top section and users are displayed in the lower section.

3. Select the **Update**, **View**, and **Delete** options for each role according to the permissions you want to grant.

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As elsewhere in Govern OpenForms, the permissions defined by user override those defined by role.

If you want to grant access to a single user, you can deselect the checkboxes beside the role and select the checkboxes beside the user.

If on the other hand, you want to deny access to a single user, you can select the checkboxes beside the role and deselect the checkboxes beside the user.

4. Click Save.

**Note:** Users can duplicate a query to which they do not have full access rights and save it under their private queries.

## **Viewing the SQL Query Statement**

You can view the query in SQL in the SQL Query tab.

To view the query in SQL:

- 1. Open the query in the QueryTool.
- Select the SQL Query tab.



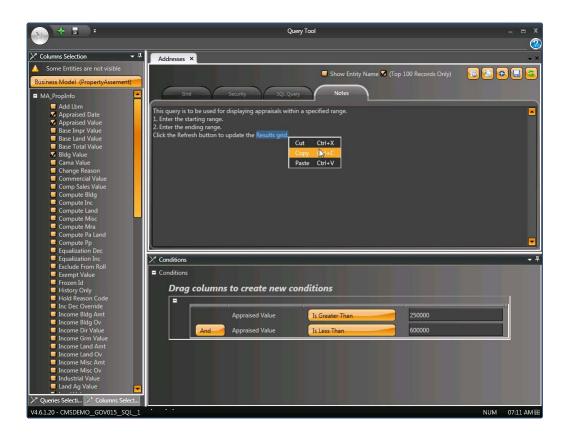
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# **Adding Notes**

You can view or add notes or comments about the query, as follows:

- 1. Open the query in the QueryTool.
- 2. Select the Notes tab.



# **Duplicating a Query**

You can duplicate any query that is saved under My Queries or Public Queries. This can be useful if you want a second query that is similar to the first but has some modifications.

If you do not have update rights to a Public Query, you can duplicate it and save it under My Queries. You can then make any required modifications to the duplicated query.

Page 29 © 2014 MS Govern





To duplicate a query:

- 1. Launch the Govern QueryTool.
- 2. Select Queries Selection \* Queries Selection .
- 3. Right click on the query in the treeview, under **My Queries** or **Public Queries**.
- 4. Select Duplicate Query.

The duplicated query is saved under **My Queries**, regardless of whether you copied it from My Queries or Public Queries.

The name of the query is preceded by Copy of...

- Rename the query, run it, make modifications.
   The duplicated query is the same as any other new query.
- 6. Click Save.

## **Deleting a Query**

You can delete any query to which you have delete rights, regardless of whether it is saved under My Queries or Public Queries.

To delete a query:

- 1. Launch the Govern QueryTool.
- 2. Select Queries Selection > Queries Selection
- 3. Right click on the query in the treeview, under **My Queries** or **Public Queries**.
- 4. Select Delete Query.
- 5. Click Save.

**Note:** The query is not deleted until you click **Save**.

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Page 30

Final Dra



# **Renaming a Query**

Before you can rename a query, you need to open it.

To rename a query:

- 1. Launch the Govern QueryTool.
- Select Queries Selection > Queries Selection.
- 3. Right click on the query in the treeview, under My Queries or Public Queries.
- 4. Select Open Query.
- 5. Repeat step 3.

This opens the query in the QueryTool editor and enables the Rename Query option on the right click menu.

- 6. Select Rename Query.
- 7. Enter a new name for the query.
- 8. Click Save.

# Refreshing a Query

When you modify a query or add conditions, you can refresh the results in the QueryTool editor.

Click the Refresh icon, to update the results .



Page 31 © 2014 MS Govern Final Draft



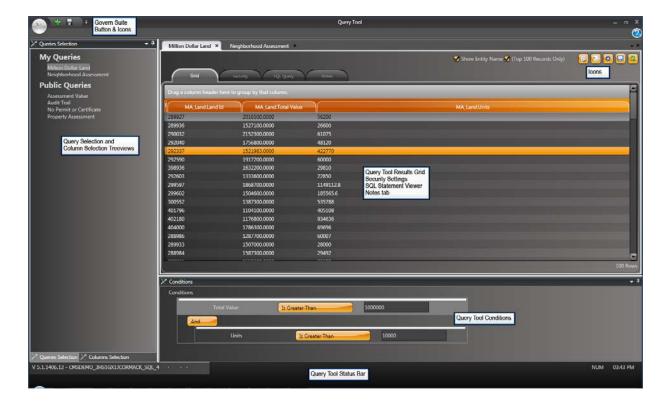
# **Adding Conditions**

# Overview

You can add conditions to your queries in order to filter your data and limit the number of results returned. This makes it easier to zero in on the information you need to find.

There are multiple predefined conditions that you can apply in order to filter by value, using a comparison, such as greater than and less than; or a filter by the word, such as, begins with or contains. You can apply multiple conditions, separated by boolean operators.

The Conditions are displayed at the bottom of the center screen.



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Page 32

Final Dra



# Filtering by Value

The following predefined types are available:

**Is Equal To:** Select **Is Equal To** and enter a value in the field on the right. If the selected field matches the value, the record is retrieved.

**Is Not Equal To:** Select **Is Not Equal To** and enter a value in the field on the right. If the selected field does not match the value, the record is retrieved.

**Is Greater Than:** Select **Is Greater Than** and enter a value in the field on the right. If the selected field is greater than the value, the record is retrieved.

**Is Less Than:** Select **Is Less Than** and enter a value in the field on the right. If the selected field is less than the value, the record is retrieved.

**Is Null:** Select **NULL** to retrieve the records with NULL in the selected field.

**Is Not Null:** Select **Is Not NULL** to retrieve the records that have any value other than NULL in the selected field.

# **Filtering by Word**

The following predefined types are available:

**Contains:** Select **Contains** and enter a string, a few characters or words long, in the field on the right. The records that include the string in the field selected on the left are retrieved.

**Does Not Contain:** This condition works the same as Contains, but only the records that do not have the entered value or string are returned.

**Begins With:** Use **Begins With** to retrieve only the records that begin with the text entered.

**Does Not Begin With:** Use **Does Not Begin With** to retrieve only the records that do not begin with the text entered.

**Ends With:** Use **Ends With** to retrieve only the records that end with the text entered.

Page 33 © 2014 MS Govern Final Draft



#### **Adding Conditions**

**Does Not End With:** Use **Does Not End With** to retrieve only the records that do not end with the text entered in the Value field.

**Is Empty:** Use **Is Empty** to return the records in which there is no entry for the selected field.

**Is Not Empty:** Use **Is Not Empty** to return the records that have data in the selected field.

# **Combining Conditions**

You can add multiple conditions to the query. Separate the conditions using:

- And: if both the condition before and after the operator have to be true.
- **Or**: If only one of the conditions before and after the operator have be true.

#### **How to Add a Condition**

To add a condition:

- 1. Launch the QueryTool.
- Select the query in the Queries Selection explorer.
- 3. Right-click on **Conditions** under Conditions.
- 4. Select Add New Condition Group.
- 5. Open the Columns Selection explorer.
- 6. Select the business model that contains the attribute you want to use for the condition.
- 7. Expand the entity.
- 8. Select the attribute in the tree view and drag it to the field that is marked **Drag columns to create new conditions**.
- 9. Select a condition operator from the center drop-down list.
- 10. Enter a string or a value in the right column, if applicable.
- 11. Click Save.

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# **How to Remove a Condition**

To remove a condition:

- 1. Launch the QueryTool.
- 2. Select the query in the **Queries Selection** explorer.
- 3. Right-click on **Conditions** under Conditions.
- 4. Select Remove Current Condition Group.
- 5. Click Save.

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