



Technical Tip

Understanding Filter Queries

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Table of Contents

1.0	UNDERSTANDING FILTER QUERIES	3
1.1	FILTER QUERY SEARCH	3
1.2	FILTER QUERY LIVE	4
1.3	BUILT-IN QUERIES	4
1.4	CUSTOM QUERIES	5
1.5	GLOBAL CUSTOM QUERIES.....	6

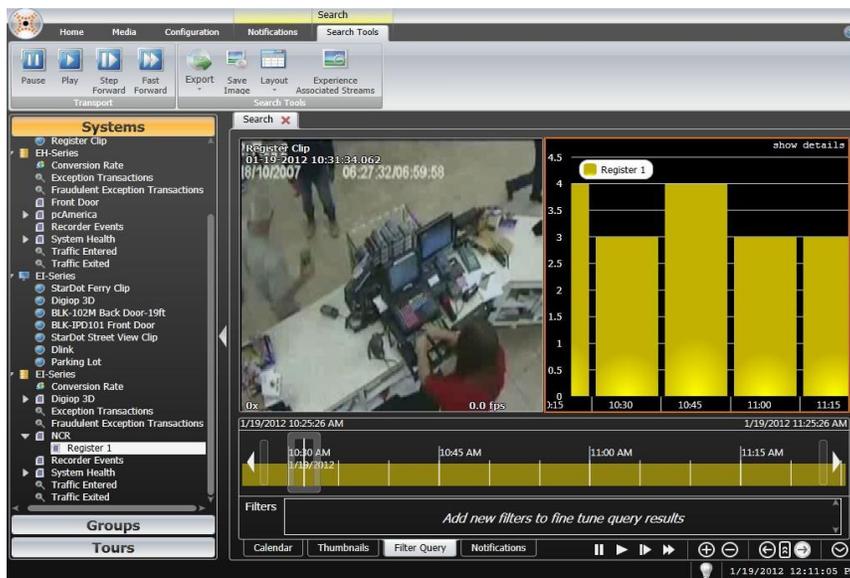
1.0 Understanding Filter Queries

The Filter Query engine allows users to mine data for exact events by filtering out irrelevant transactional data, in a given query. This allows users to get to the important data, in a timely manner, and can be accomplished in a few different ways.

1.1 Filter Query Search

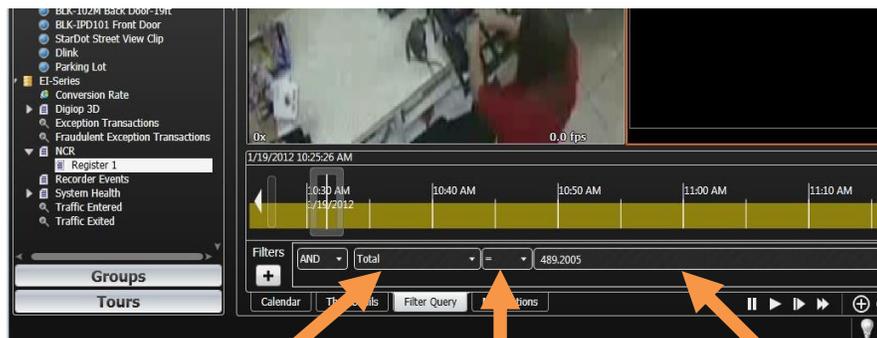
In this example we will use the **Generic Cash Register (emulator)**. See the **Digiop Control Manual** for help setting up data streams such as the emulator.

1. Select the desired video and the **Generic Cash Register (emulator)** in the systems tree and click **Search**. Select the register emulator in your search layout. You will see a **Filter Query** tab on the bottom ribbon appear.



2. Click **Add new filters to fine tune query results**
3. Search **Total** under Cash Register/Cash register transaction summary
4. Search **>= \$100.00**

The items in the filter query search are not every item in the database but the items within the predefined timeline search.



Properties Selector

Operand

Values Selector

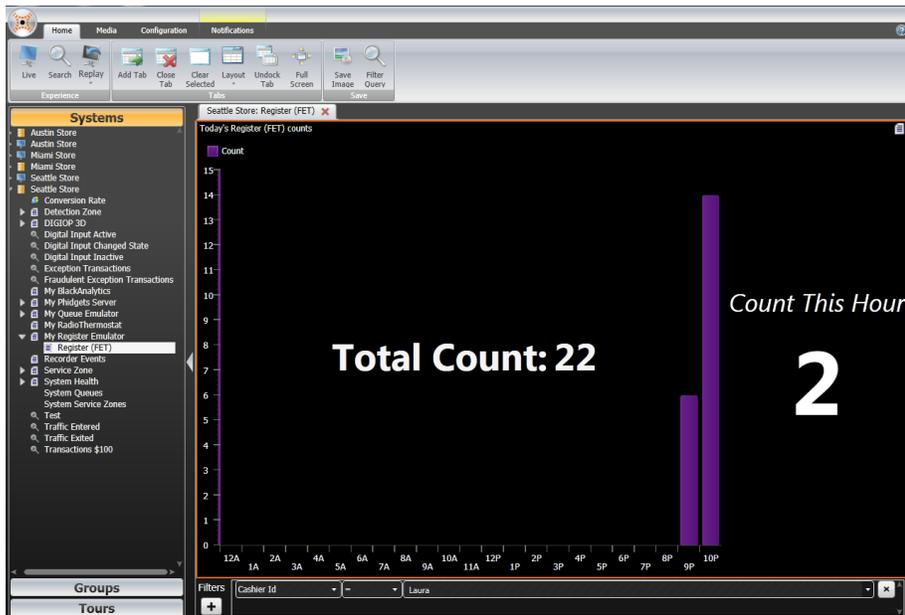
The **Properties Selector** will display a generic filter that applies to all registers, and depending on the register, it may display a filter that is specific to the type of register in use. This is true of all other data types as well.

1.2 Filter Query Live

The Filter Query engine also allows users to filter out irrelevant transactional data in a live display.

Steps:

1. Select a data stream and click the **Live** button.
2. Click on the data stream in the live window pane and the channel will show an orange outline, indicating that the channel has been selected.
3. Click the **Filter Query** button.
4. Add the desired filter.



Users can save the live filter query in a **Group** or **Profile**, if desired. This will save the user from creating the live query on every connection.

1.3 Built-in Queries

DIGIOP has Built-in Queries that will automatically appear when the user adds a related device type. These automated queries are designed to prevent users from creating a live or search filter query on every connection.

The Built-in Queries will show up in DIGIOP™ Control and DIGIOP™ Connect as a magnified glass icon, under your data tree.

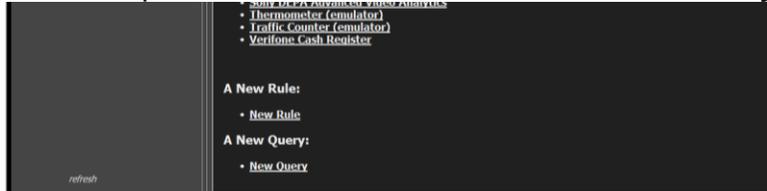
Digital Inputs	Analytics Counting Devices	Cash Registers
<ul style="list-style-type: none"> 🔍 Digital Input Active 🔍 Digital Input Changed State 🔍 Digital Input Inactive 	<ul style="list-style-type: none"> 🔍 Traffic Entered 🔍 Traffic Exited 	<ul style="list-style-type: none"> 🔍 Exception Transactions 🔍 Fraudulent Exception Transaction

1.4 Custom Queries

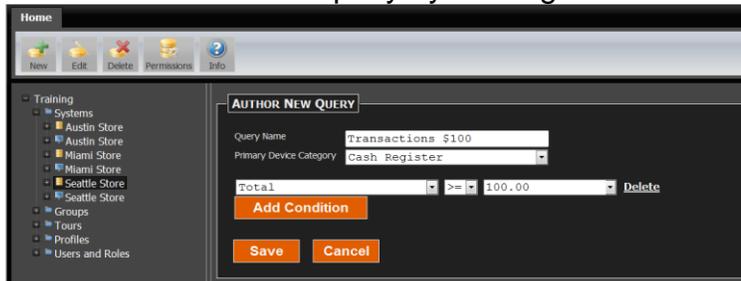
Users can create their own Custom Queries in DIGIOP™ Control. These Custom Queries can be used in DIGIOP™ Connect and show up as a magnified glass icon, under your data tree.

Steps:

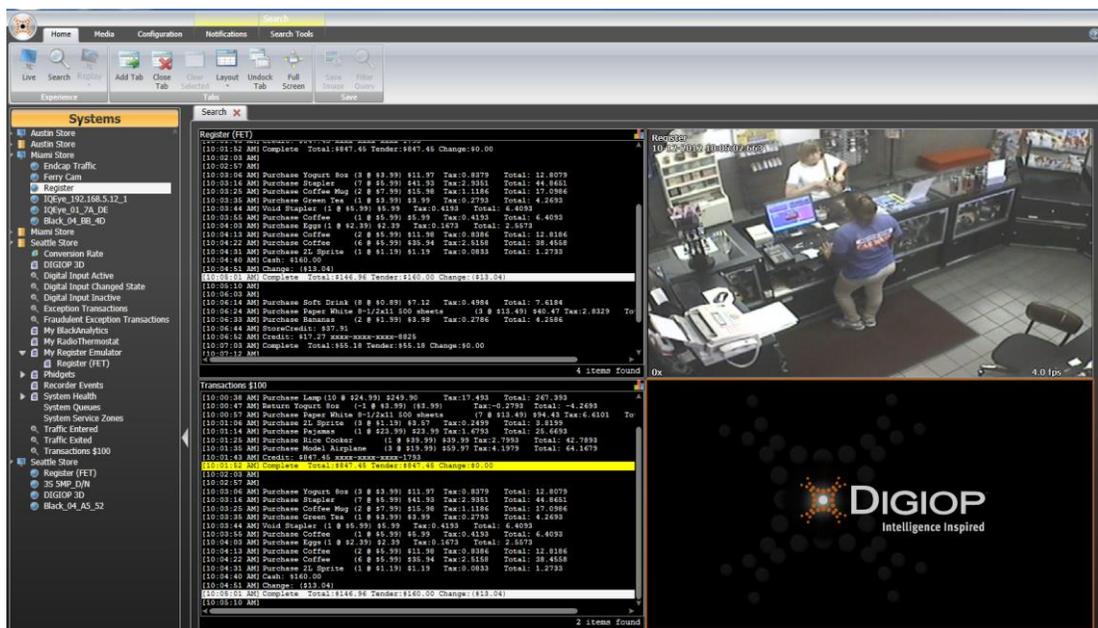
1. Log in to DIGIOP™ Control as the admin user.
2. Select a **Data Server** icon and click the **New** button.
3. Scroll past the data streams and select **New Query**.



4. Identify a unique **Query Name**.
5. Select a data stream under **Primary Device Category**.
6. Create the custom query by clicking on **Add Condition**.



This custom query will show all transactions over \$100 in DIGIOP™ Connect.



1.5 Global Custom Queries

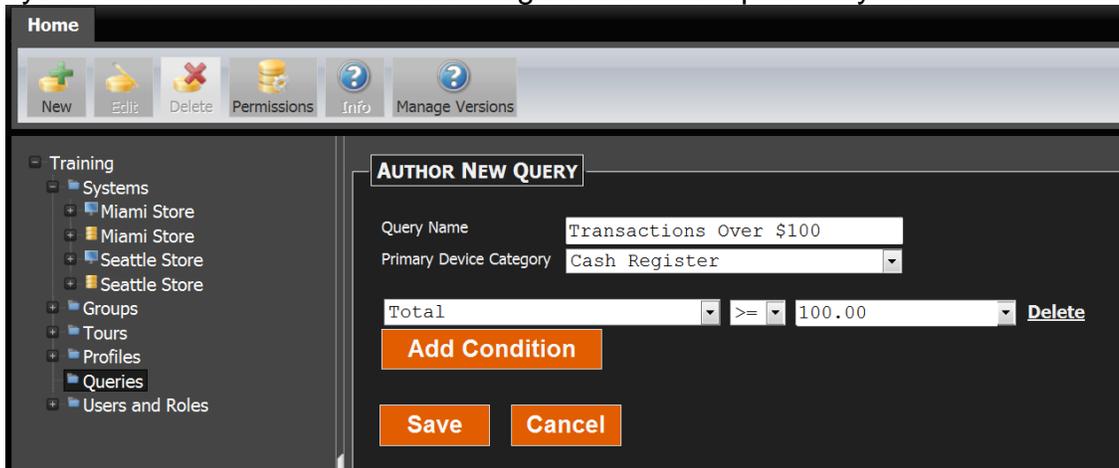
The **Global Custom Query Creator** allows users to create one query that will be available to every system in the system tree. This will save users the headache of creating a new query for each system under their customer name.

Steps:

1. Click on the **Queries** folder under your **Customer Name** in Elements, and then click the **New** button.



2. Configure the **Query Name**, **Primary Device Category**, and parameters of the global custom query, and then hit the **Save** button. In this example we will create a global custom query for transactions over \$100 with the Primary Device Category of **Cash Register**. DIGIOP will now create a filter for each system that works across all cash registers on that specific system.



3. Verify that the Global Custom Query is visible under the Queries Folder in Elements.



- Verify that the Global Custom Query is visible in DIGIOP™ Connect under every system in your system tree. Furthermore, you should be able to render the filter query and verify the data.

