



Nawatech

Beyond Engineering

nawatech.co

Query Warehouse





Hands-on: Query Warehouse

Step 1: Open Warehouse

1. **Workspace** -> “fabric-data-kai”
2. In Top Right click **Filter**. In Type, select **Warehouse**. In Owner, select “your user”
3. In bottom, click on “your warehouse”

Step 2: Create “New SQL query”

In ribbon **Home** -> **New SQL query**

Step 3: View table

1. Write “SELECT * FROM”
2. In side bar, Right click on one of table
-> **Insert into canvas**
3. Click **Run**



Hands-on: Query Warehouse

Step 4: Aggregate measures

1. Copy query from “Hands-on Day 3 Warehouse.txt” in GitHub
2. Click **Run**

Step 5: Extend measures

1. Copy query from “Hands-on Day 3 Warehouse.txt” in GitHub
2. Click **Run**

Step 6: Ranking functions

1. Copy query from “Hands-on Day 3 Warehouse.txt” in GitHub
2. Click **Run**

Step 7: Run multiple query

1. Block all query or just click in query canvas
2. Click **Run**
3. In right, select “Result: 1” -> choose result that want to see

Visual Query Warehouse





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Step 1: Open Warehouse

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Step 2: Create “New visual query”

1. In ribbon **Home** -> **New visual query**
2. Drag **flights** table to canvas

Step 3: Remove column

1. In bottom preview, Right click on **Route** column -> **Remove columns**
2. Block **Total_Stops** and **Additional_Info** column
3. In ribbon canvas -> click **Manage column** -> select **Remove columns**

Step 3: Add airports table

1. Drag **airports** table to canvas
2. airports table doesn't need to be transformed



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Step 5: Transform bookings table

1. Drag **bookings** table to canvas
2. In ribbon canvas -> **Reduce rows** -> select **Filter rows**
3. In “Keep row where ‘payment_status’”, select **equals**
4. In value, write “Completed”
5. Click **OK**

Step 6: Transform passengers table

1. In bottom table, block **first_name** and **last_name** column
2. Right click on that column -> select **Merge columns**
3. In **Separator** -> select **Space**
4. In **New column name** -> write “person_name”
5. Click **OK**



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Step 7: Transform payments table

1. Drag **payments** table to canvas
2. In bottom table, right click **payment_status** column -> select **Remove column**

Step 8: Merge flights and airports table

1. Click on **flights** -> in ribbon canvas, click **Combine** -> **Merge queries as new**
2. In **Right table for merge** -> select **airports**
3. Select **Id** and **iata_code** column
4. In **Join kind** -> select **Left outer** (default)
5. Click **OK**
6. In bottom table, click arrow symbol on **airports** column



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 Step 9: Merge bookings, flights, airports table

1. Click on **bookings** -> in ribbon canvas, click **Combine** -> **Merge queries as new**
2. In **Right table for merge** -> select **Merge**
3. Select **flight_id** and **Id**
4. In **Join kind** -> **Left outer** (default) -> **OK**
5. In bottom table, click arrow symbol on **Merge** column
6. Uncheck on **Id**

 Step 10: Merge passengers table

1. Click on **Merge (2)** -> in ribbon canvas, click **Combine** -> **Merge queries as new**
2. In **Right table for merge** -> select **passengers**
3. Select **passenger_id** on both table
4. In **Join kind** -> **Left outer** (default) -> **OK**
5. In bottom table, click arrow symbol on **Merge (3)** column
6. Uncheck on **passenger_id**



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Step 11: Merge payments table

1. Click on **Merge (3)** -> in ribbon canvas, click **Combine** -> **Merge queries as new**
2. In **Right table for merge** -> select **payments**
3. Select **booking_id** on both table
4. In **Join kind** -> **Left outer** (default) -> **OK**
5. In bottom table, click arrow symbol on **payments** column
6. Uncheck on **payment_id** and **booking_id**

Step 12: Group and aggregate data

1. In ribbon canvas -> **Transform** -> select **Group by**
2. Select **Basic**
3. In **Group by** -> **person_name**
4. In **New column name**, fill “sum_amount”
5. In **Operation** -> select **Sum**
6. In **Column** -> select **amount** -> **OK**
7. Click **sum_amount** -> in ribbon canvas, click **Sort** -> **Sort descending**