a) Create a cluster & attach the notebook to the cluster and run all commands in the notebook & creates a Data frame from a Databricks dataset& Create a Visualizations in Databricks notebooks

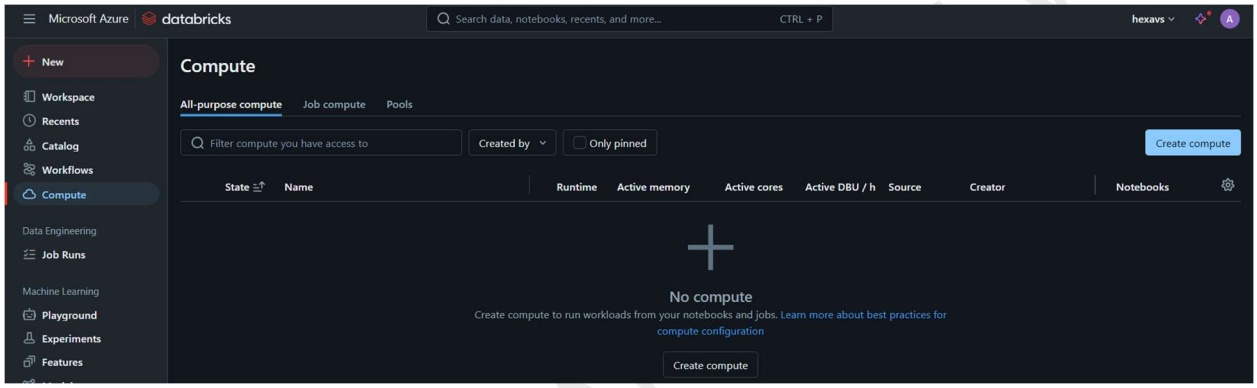
1. Procedures

2. Queries and visualizations

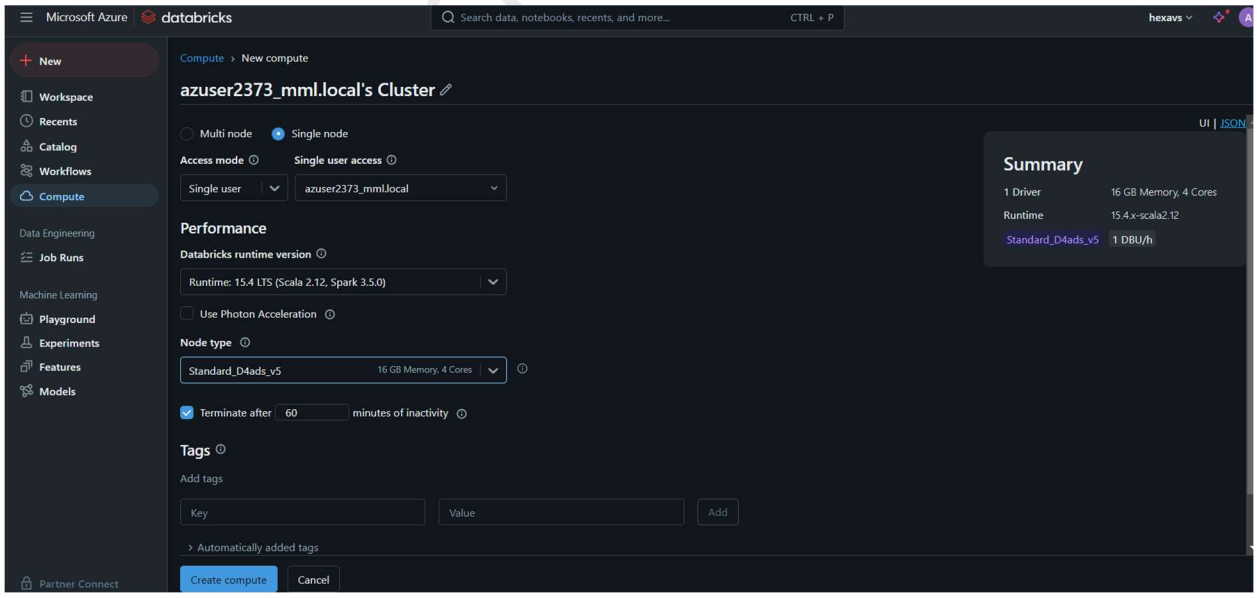
PROCEDURES

Cluster creation

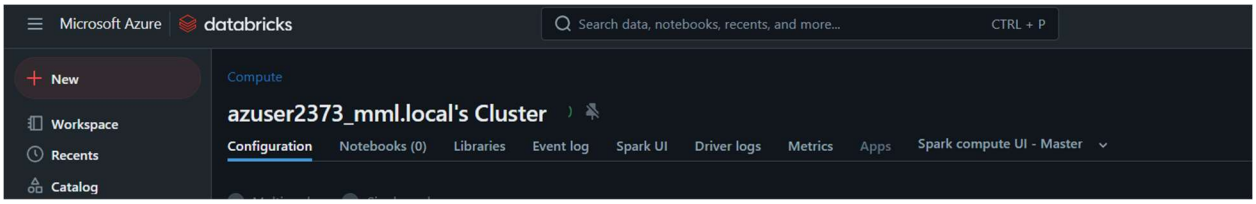
1. go to compute in azure databricks workspace and click on create compute



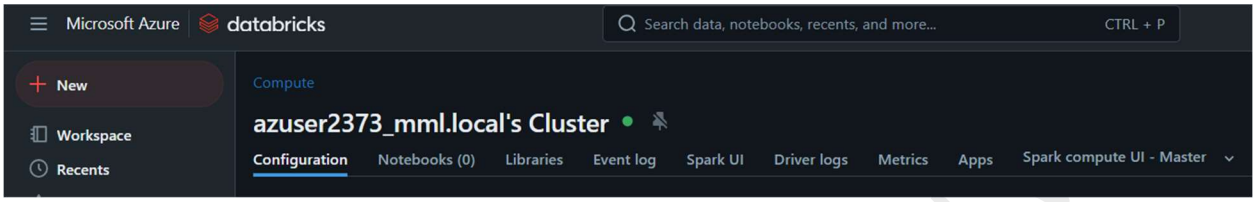
2. Give the necessary details like mode, runtime version, node type and click on create compute



3. Cluster creation started. Wait for 3-5 minutes.

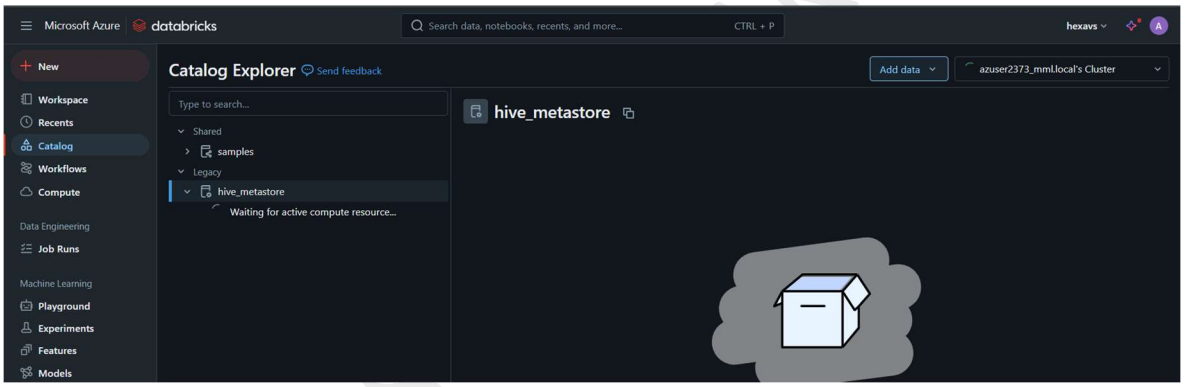


4. Cluster created successfully.

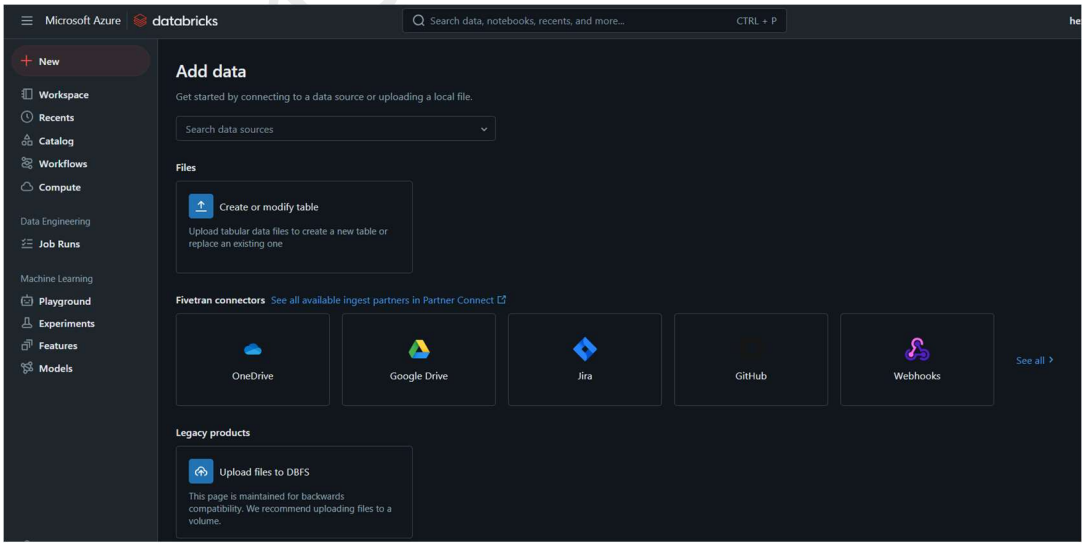


Uploading data to dbfs

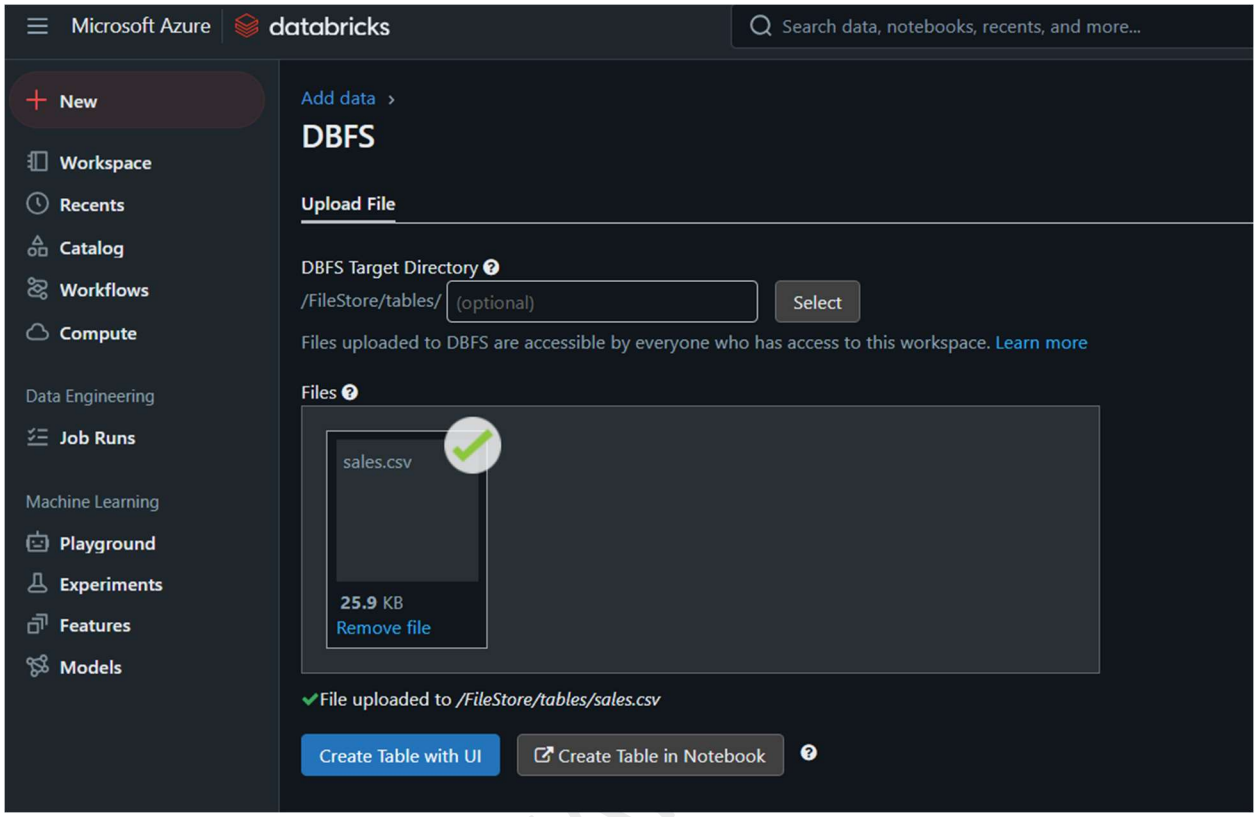
1. Go to catalog. Click on Add data.



2. click on legacy products> upload files to DBFS.



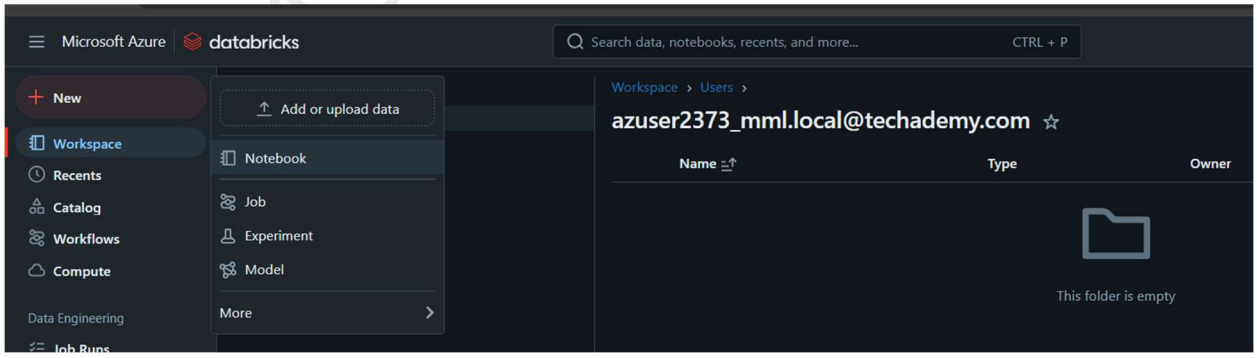
3. choose the file from local directory and click on upload.



4. File uploaded to the location " */FileStore/tables/sales.csv*"

Notebook Creation

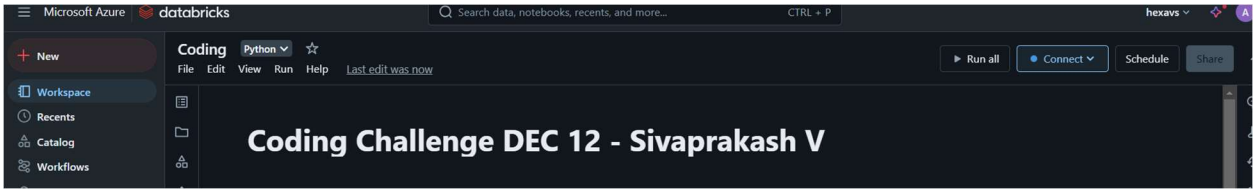
1. go to workspace. Click on notebook. Give name to notebook.



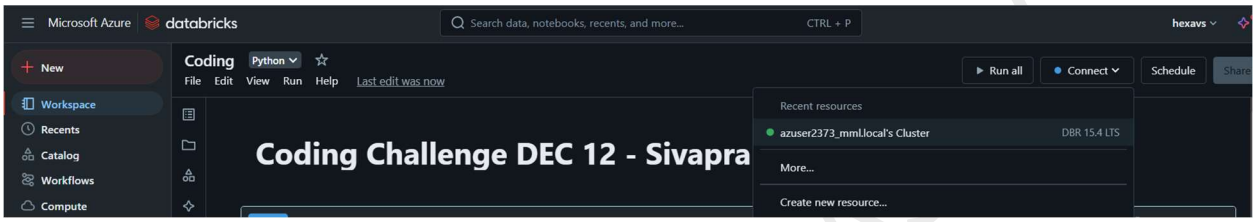
2. Notebook created successfully.

Attach cluster to notebook

1. click on connect



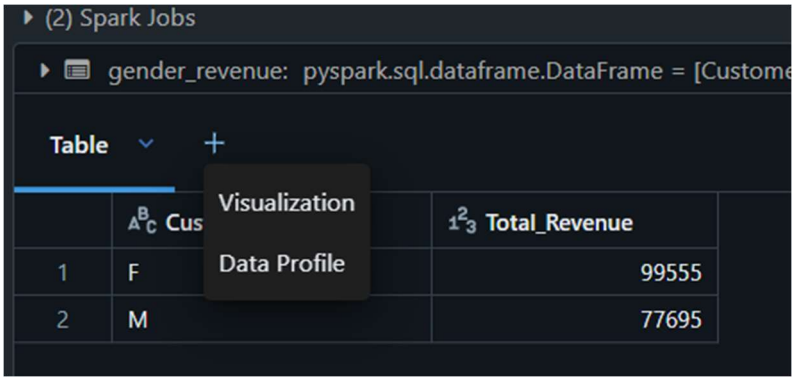
2. live clusters or active clusters will appear.



3. click on that cluster. Now cluster attached with notebook.

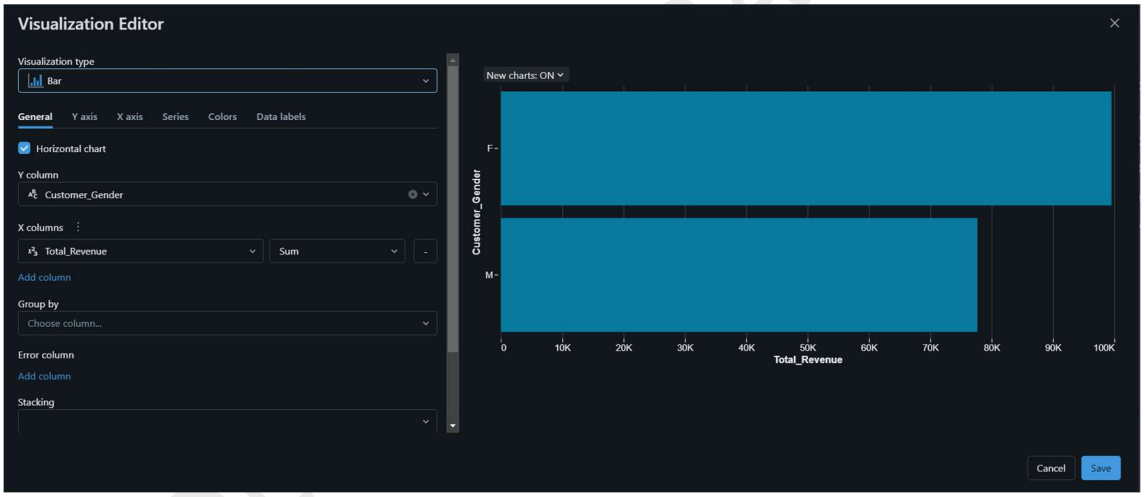
Transformations & Visualizations

For creating visualization, click on + symbol next to table. And click on Visualization

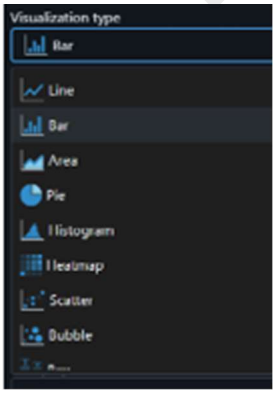


We can choose the type of visualization accordingly in the visualization editor.

After creating visualization save it.

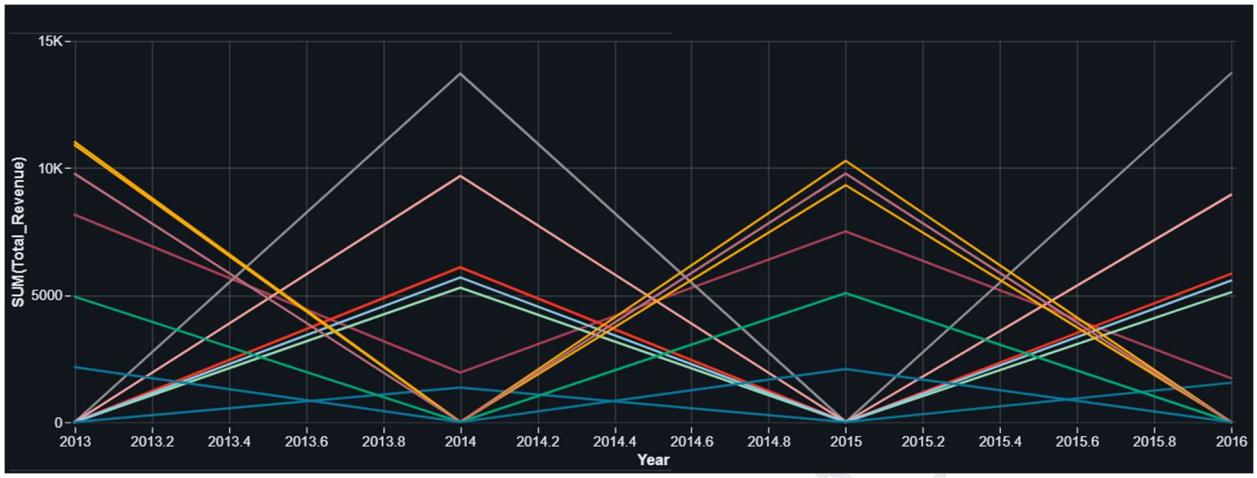


Types of visualization available

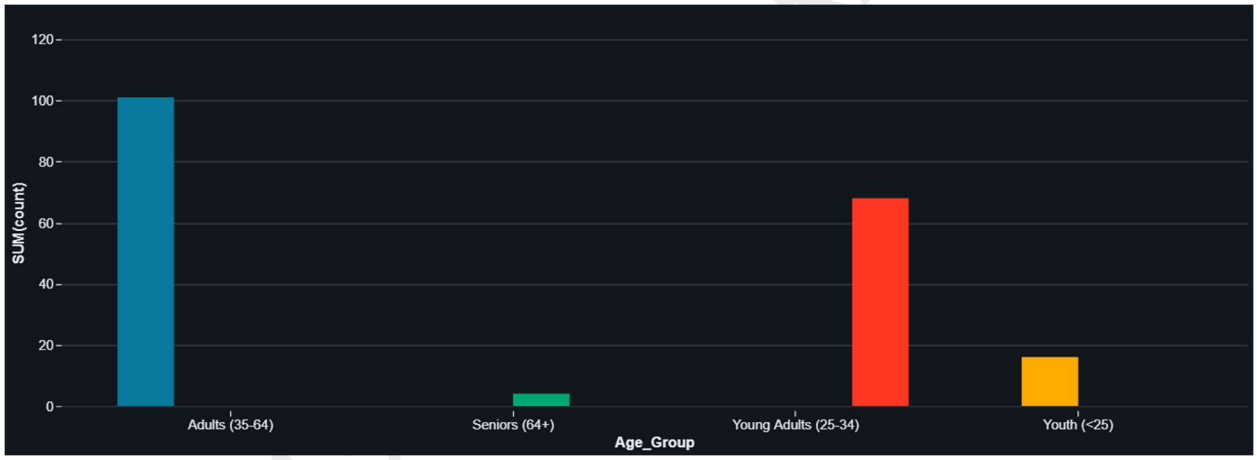


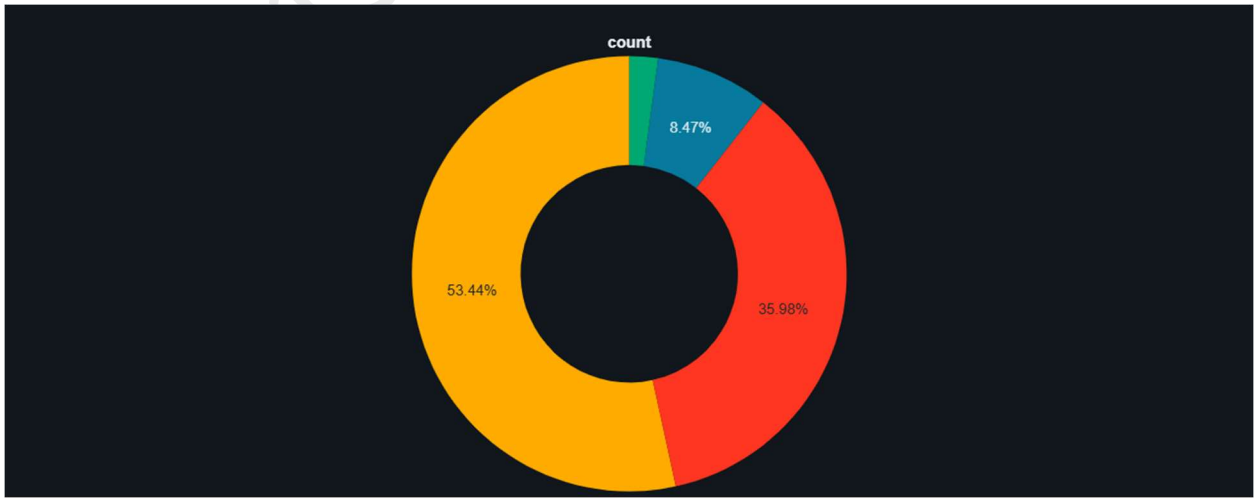
QUERIES AND VISUALIZATIONS

Revenue trend over time.

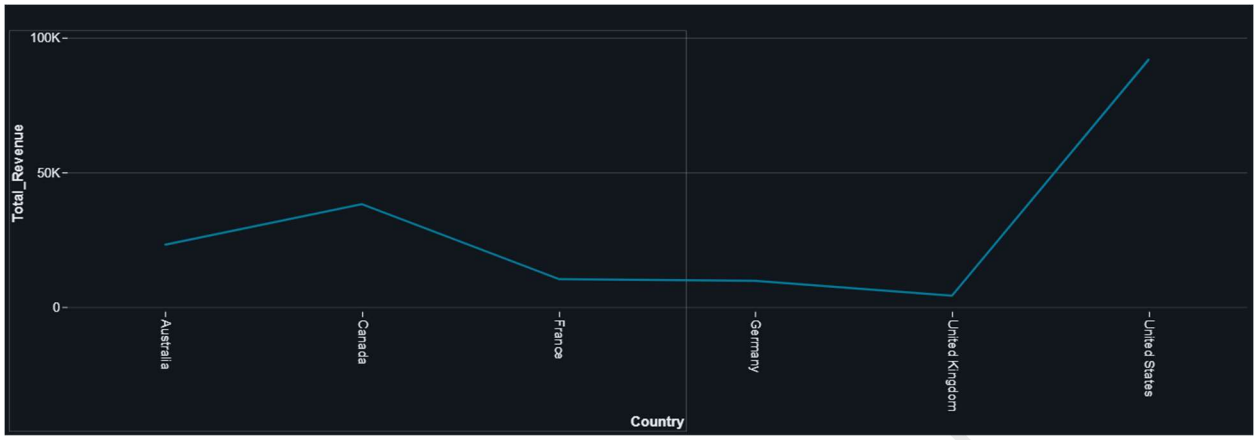


Customer Age group distribution

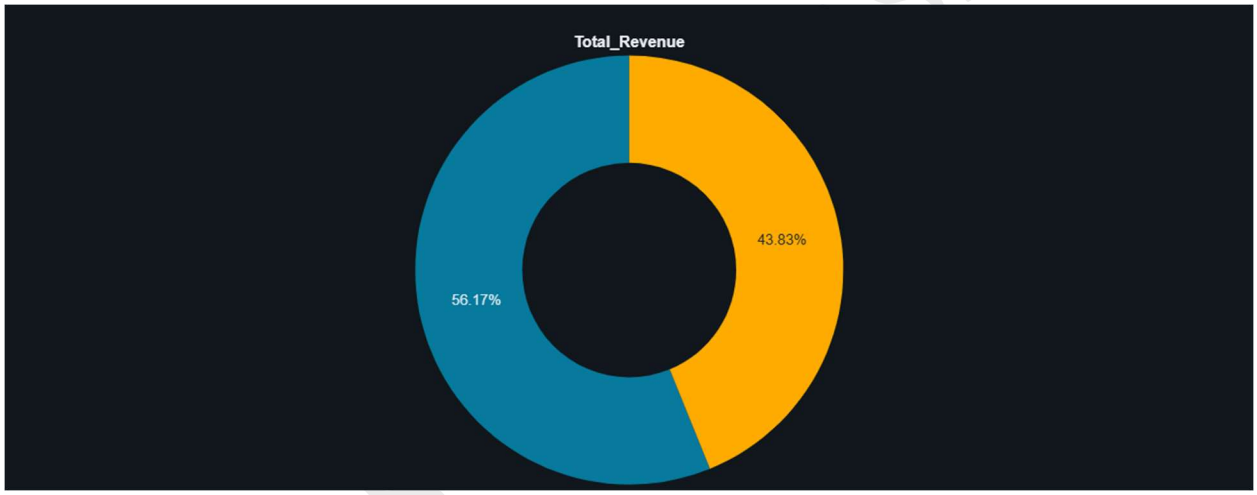




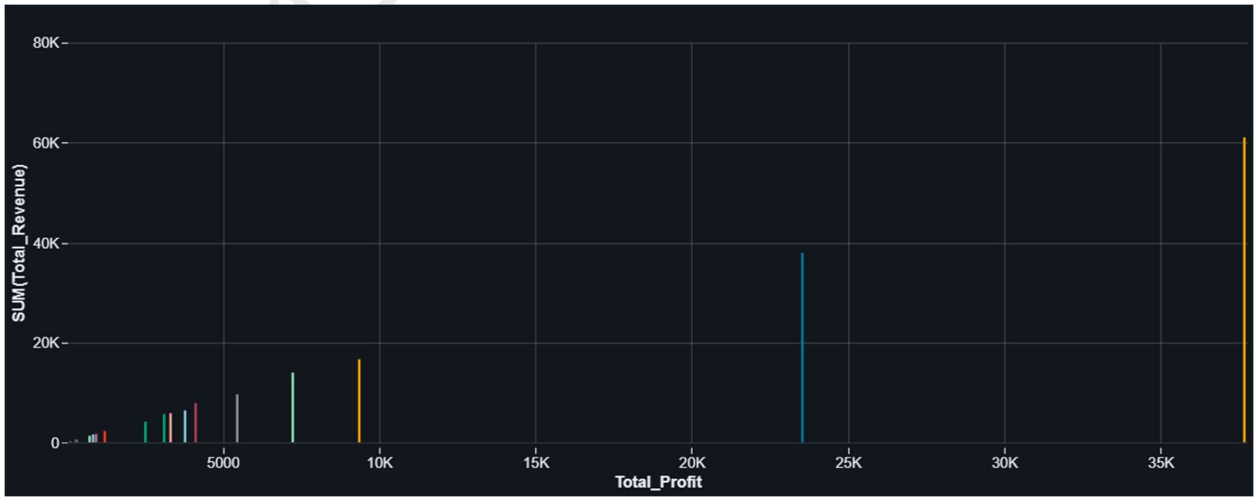
Country wise Revenue Analysis



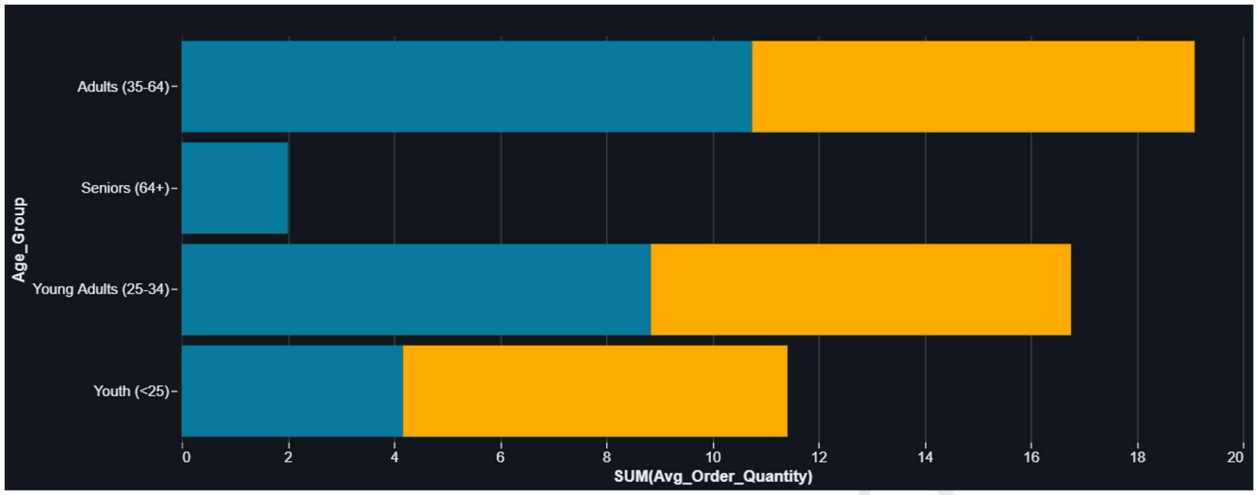
Gender Base revenue analysis

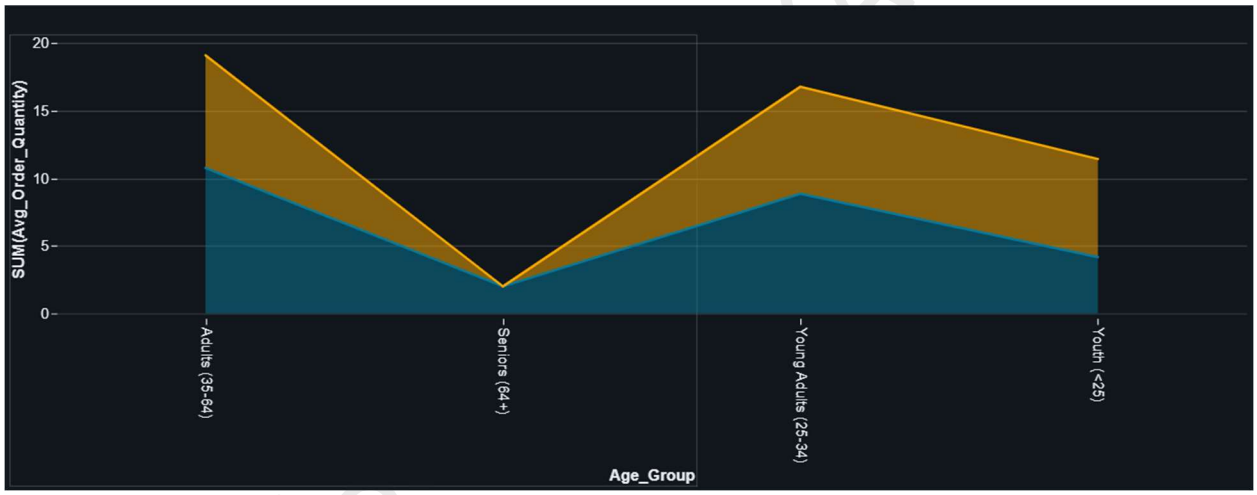


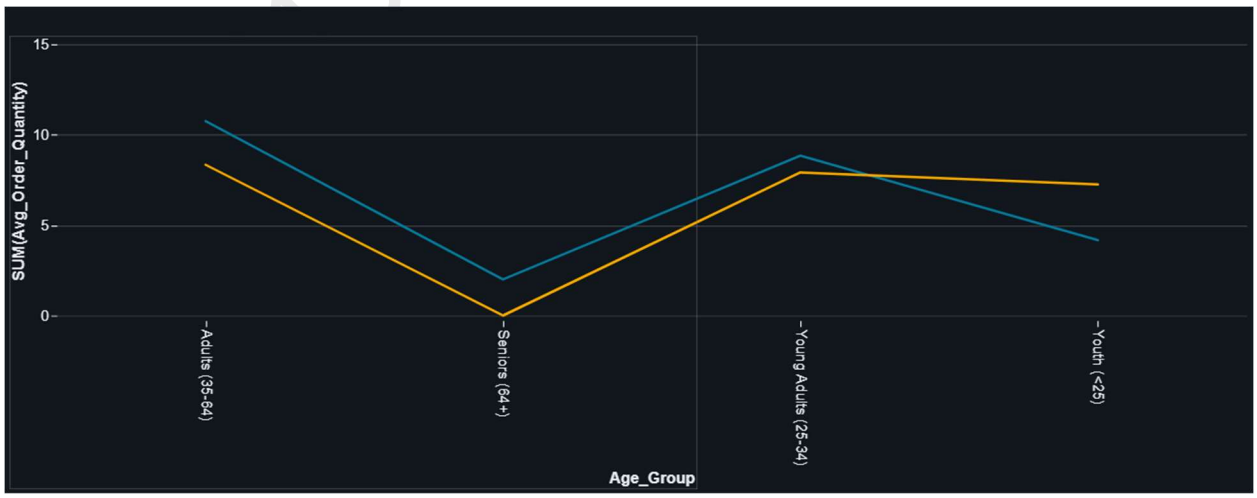
Total revenue and profit by state

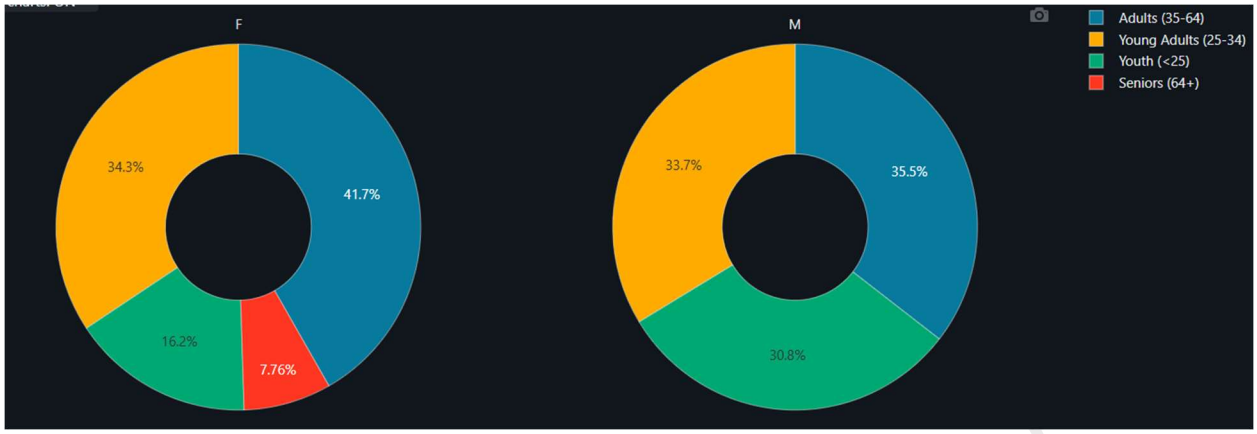


Average Order Quantity by Age Group and Gender

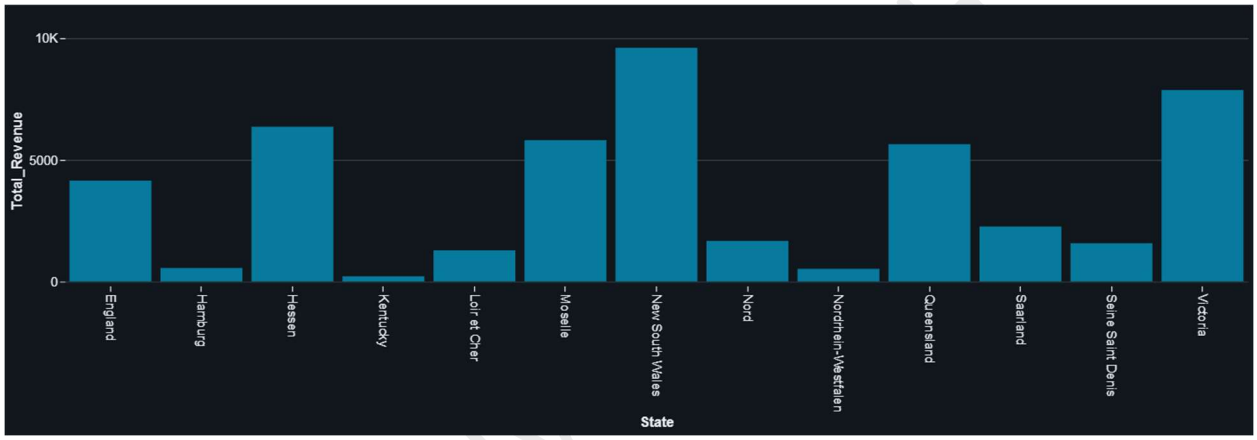








Low-Performing States



Season based trend in revenue