

Capstone F-3

Task 3.2 Solutions

Group Members

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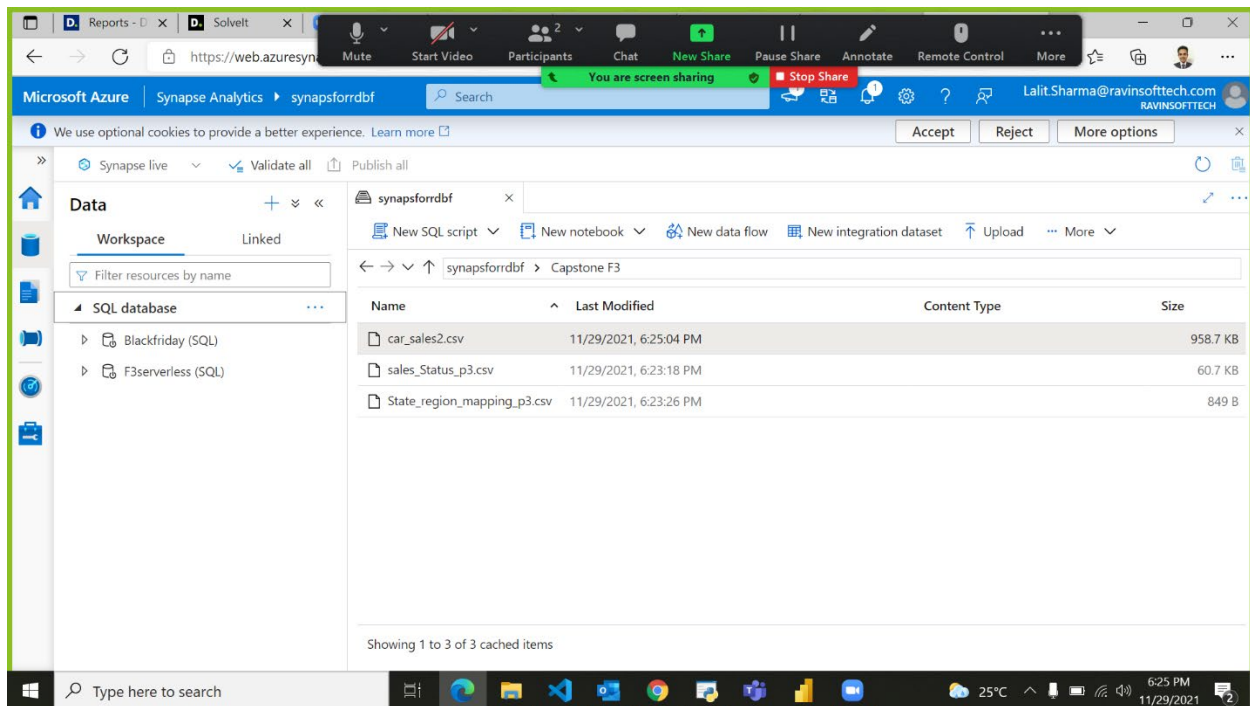
1.1) Move the marketing data to Azure Synapse Gen1

The screenshot displays the Microsoft Azure Synapse Analytics web interface. The top navigation bar shows 'Microsoft Azure' and 'Synapse Analytics'. The main workspace is titled 'synapsforrdbf'. On the left, a 'Data' sidebar is visible with options for 'Workspace' and 'Linked'. The 'Linked' section shows a list of resources, including 'Azure Data Lake Storage Gen2' and 'synapsforrdbf (Primary)'. The main area displays a table of files:

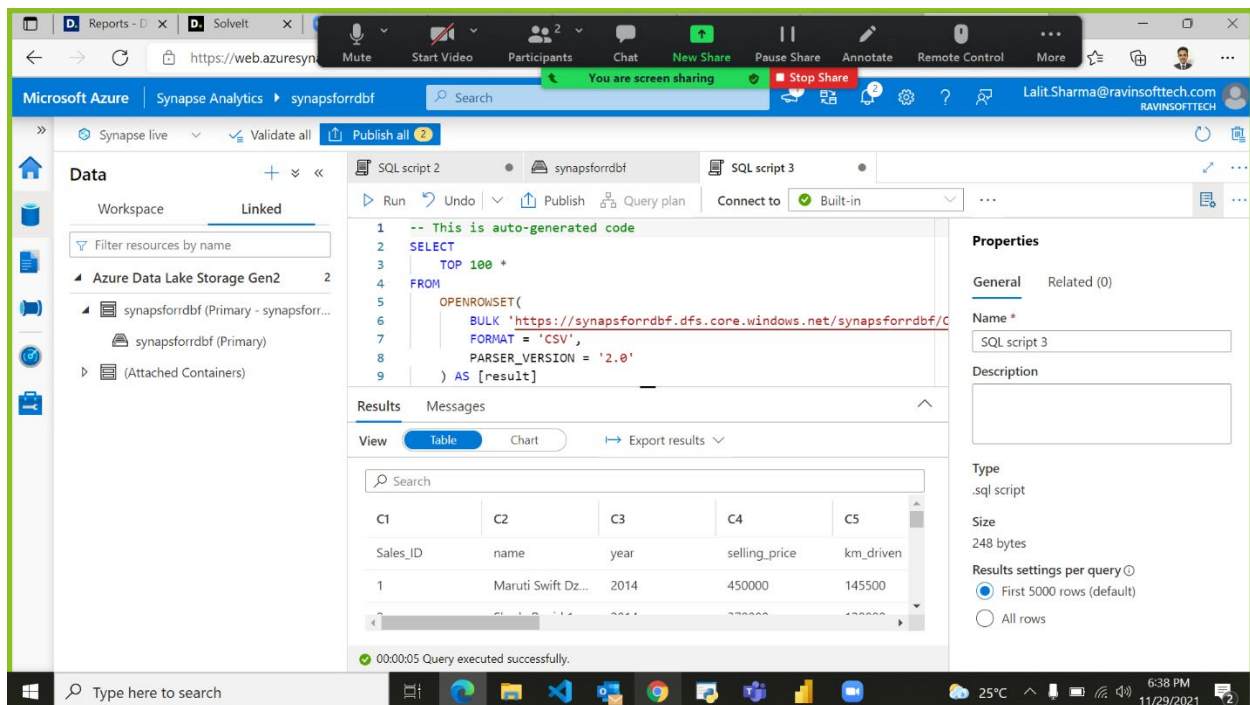
Name	Last Modified	Content Type	Size
car_sales2.csv	11/29/2021, 6:23:12 PM		
sales_Status_p3.csv	11/29/2021, 6:23:18 PM		60.7 KB
State_region_mapping_p3.csv	11/29/2021, 6:23:17 PM		

The bottom status bar indicates 'Showing 1 to 3 of 3 cached items'. The interface also includes a top toolbar with options like 'Upload', 'New folder', 'Select all', and 'Refresh'.

1.2) Create a Serverless SQL pool to query data

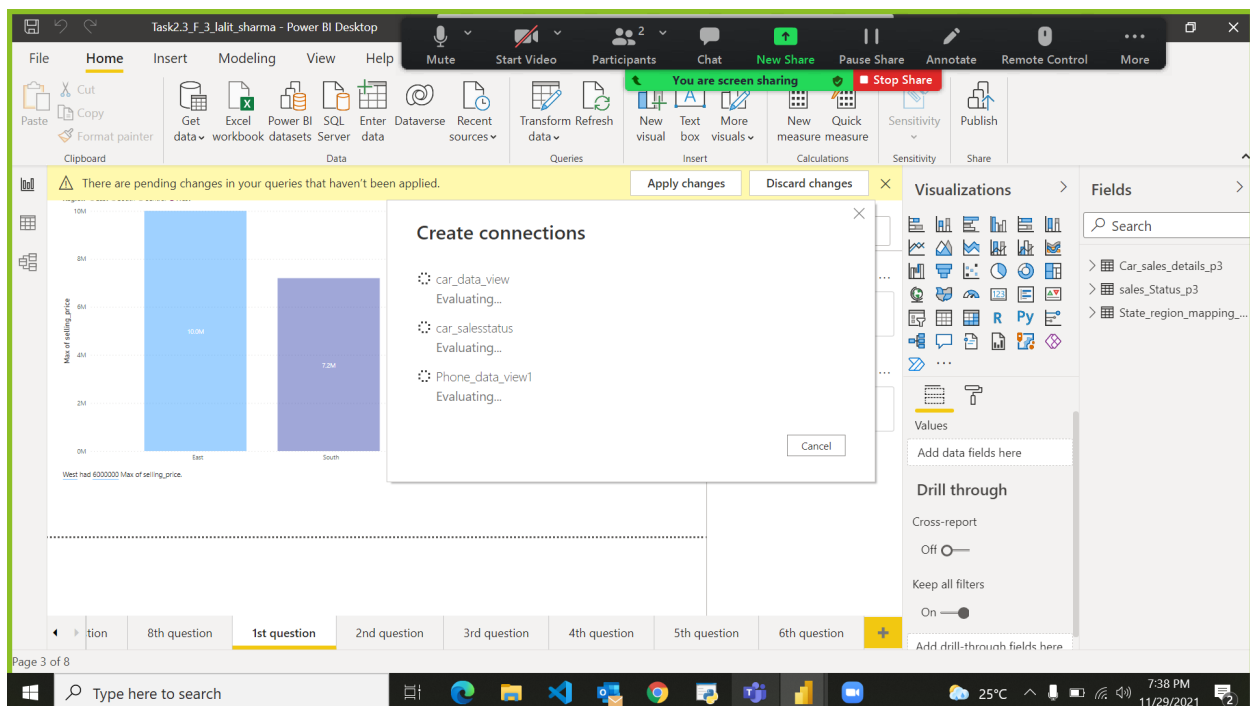
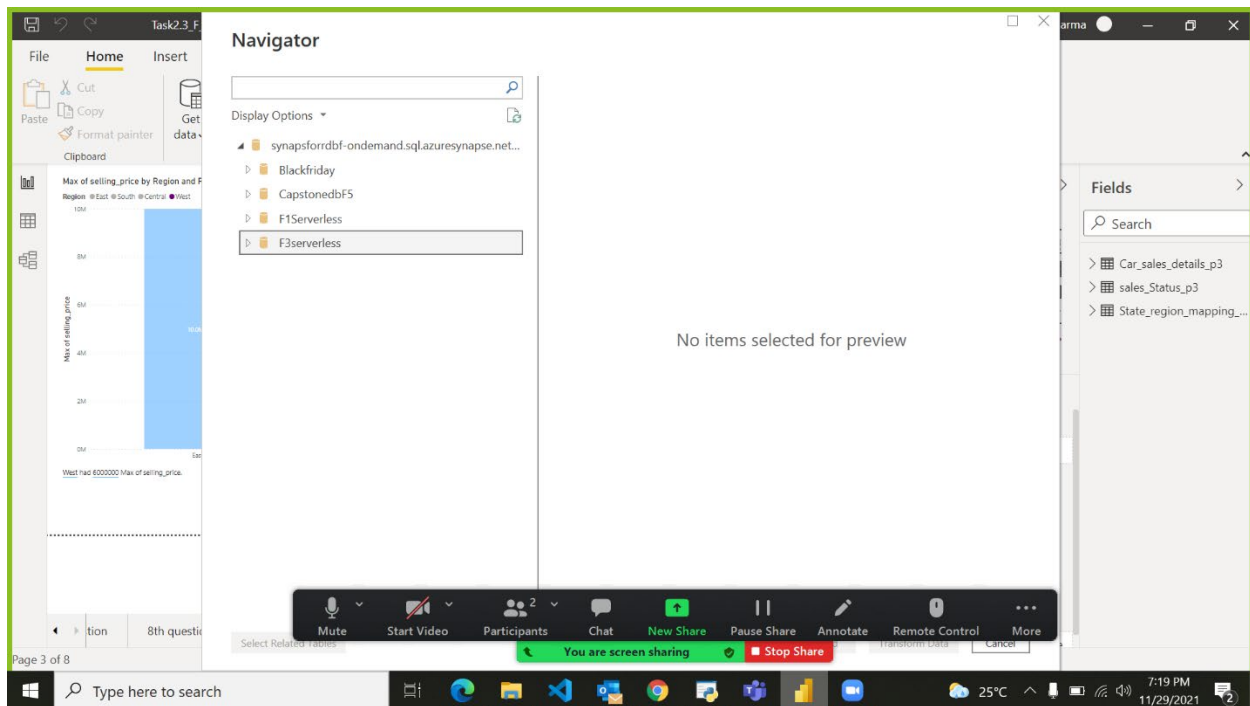


F3serverless is serverless sql pool here

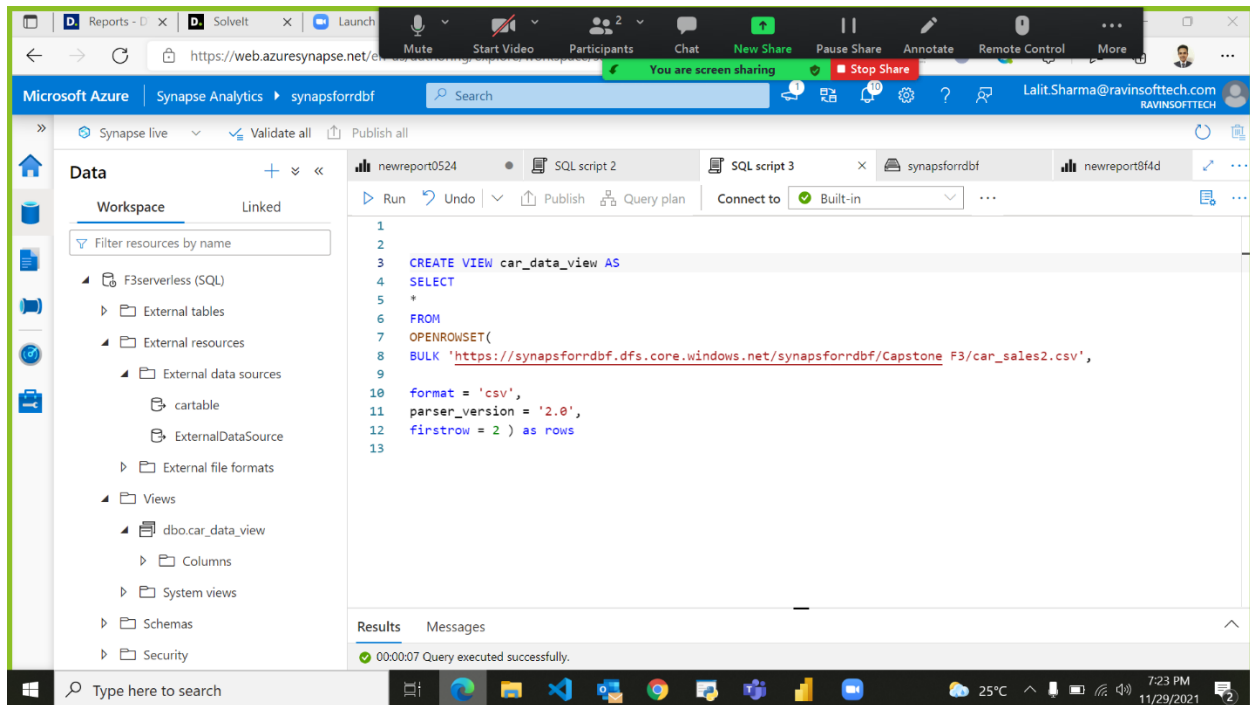


Sql query to fetch data from source

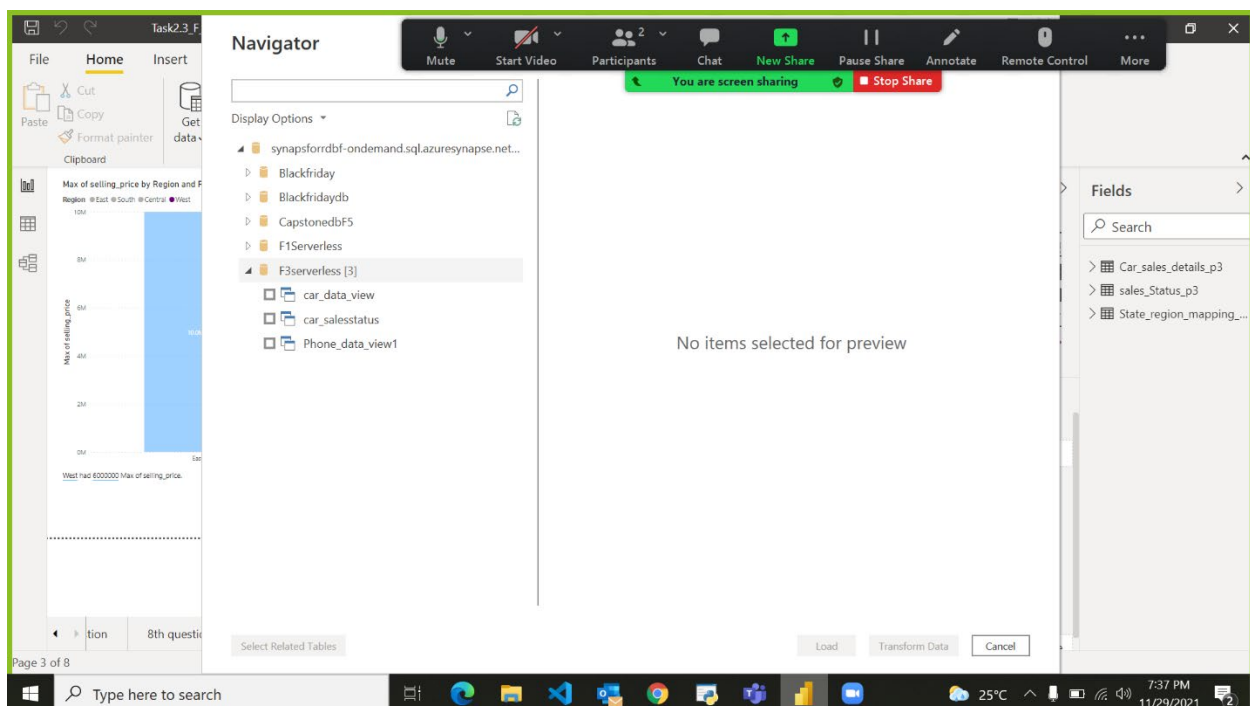
1.3) Linked service to powerBI



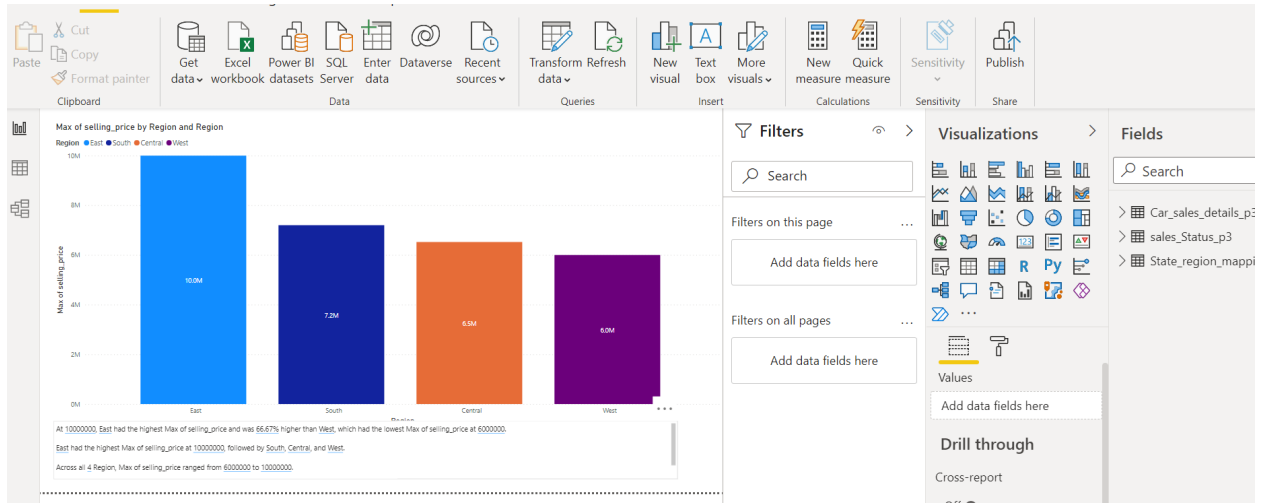
1.4) Sufficient privileges on Synapse to access the serverless sql pool.



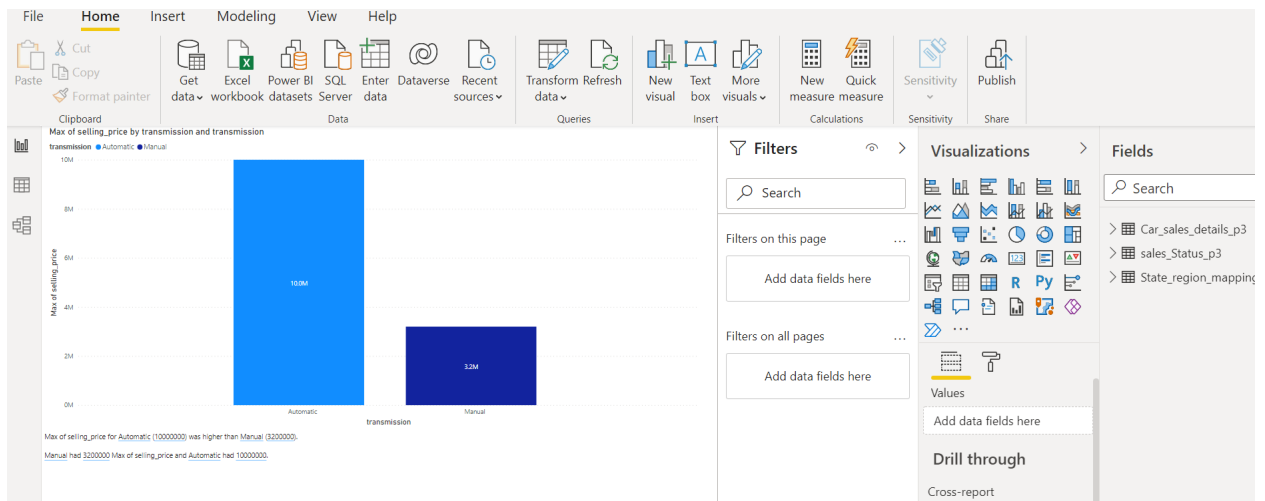
View creation and table creation using serverless sql pool



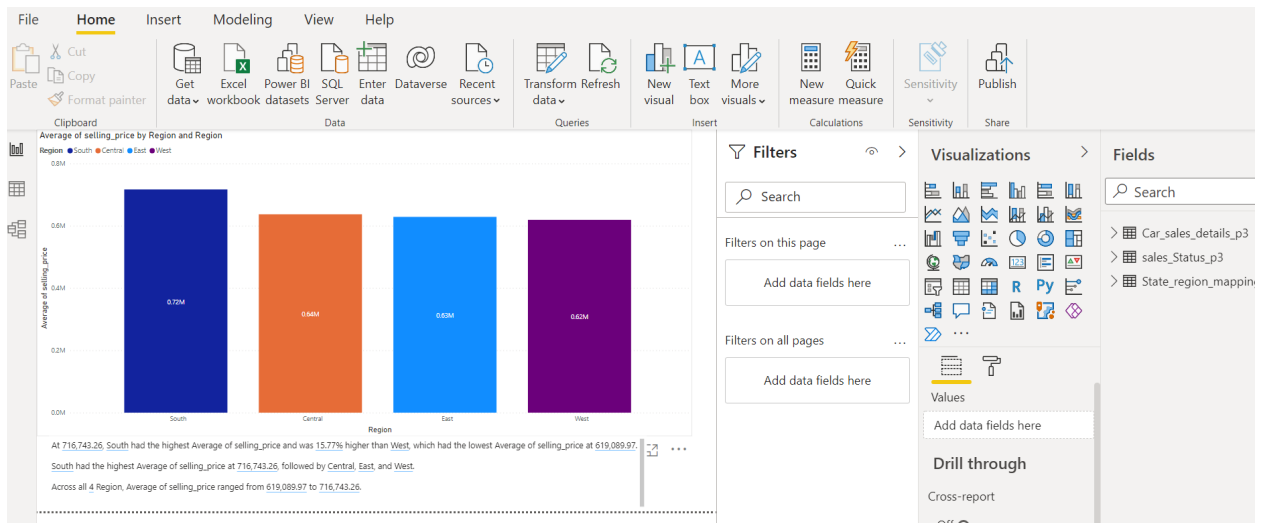
1.5, 1.6) Analytics and dashboard in powerBI as in 2.3



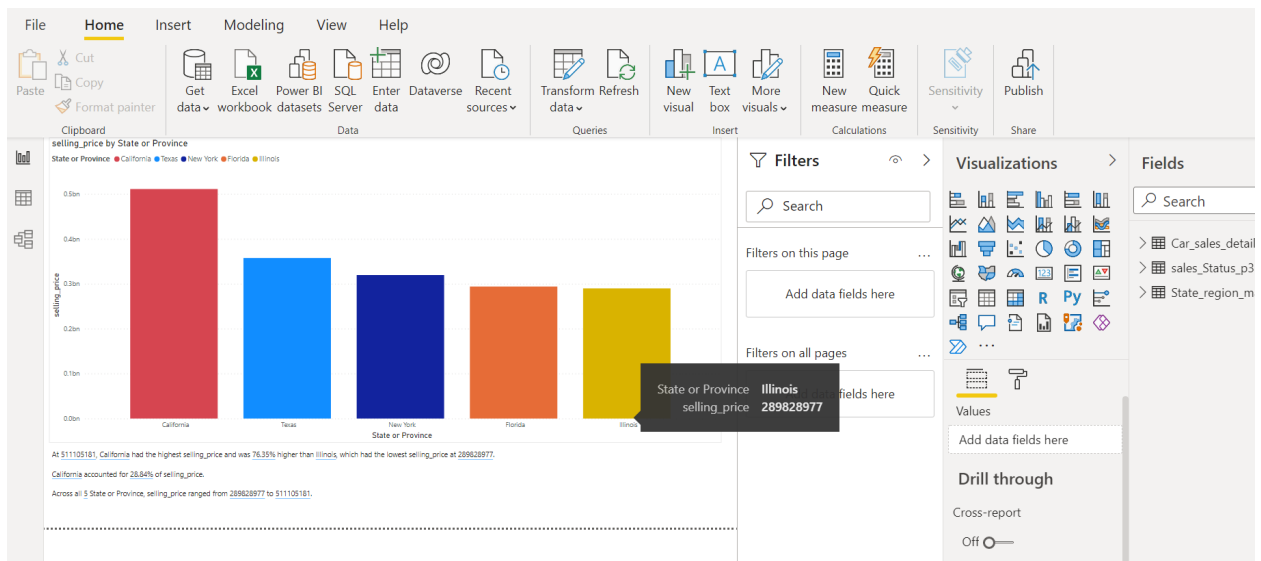
Region where the selling price is high



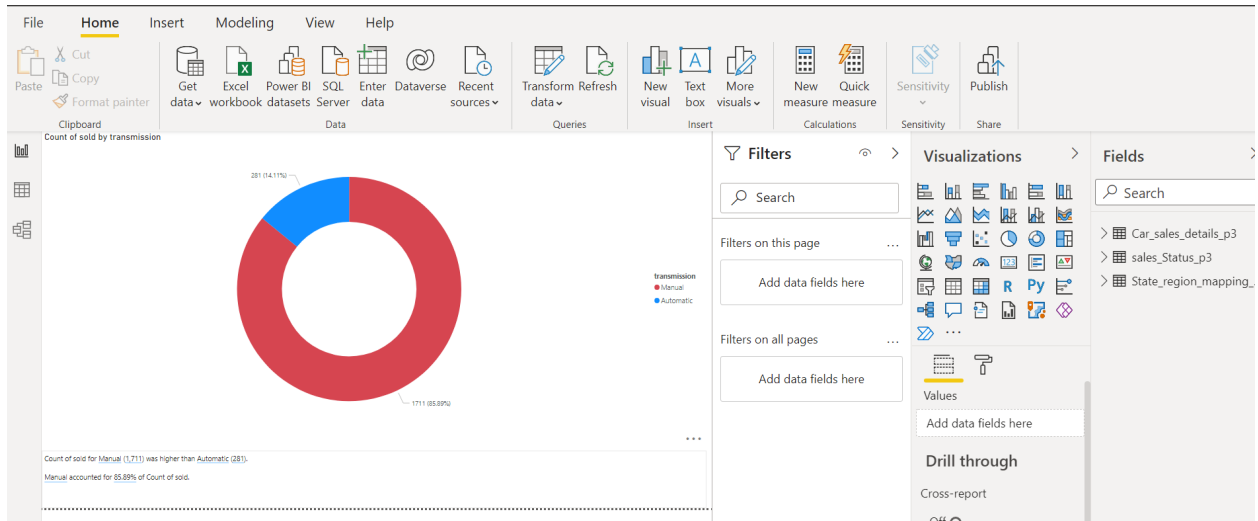
Transmission type generating the highest selling price



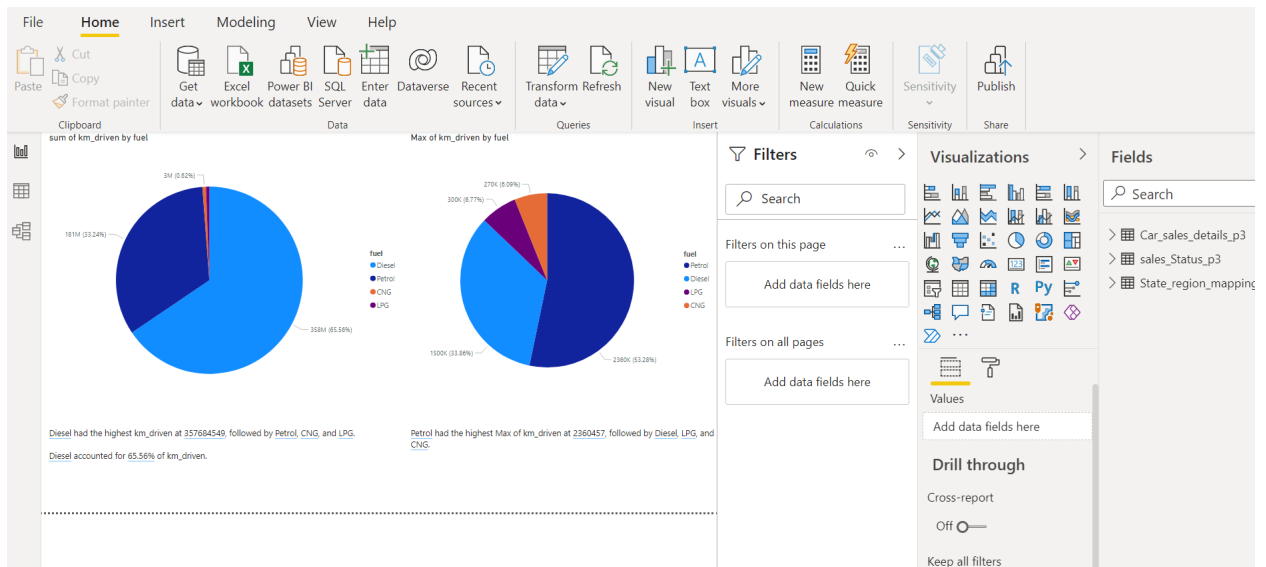
Average selling price by region



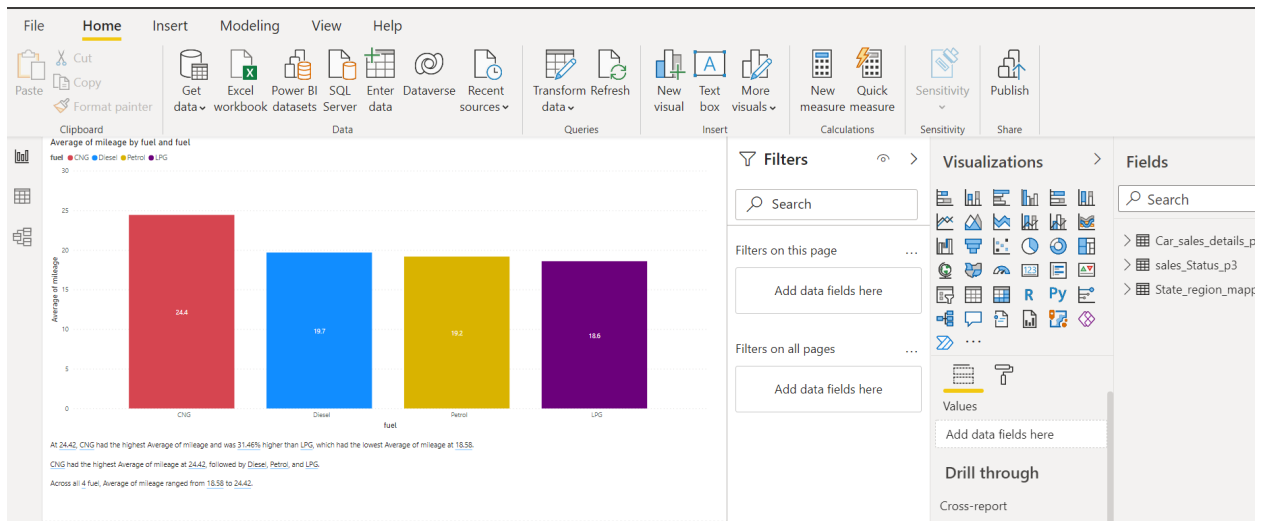
Top 5 States or Provinces where the selling price is high



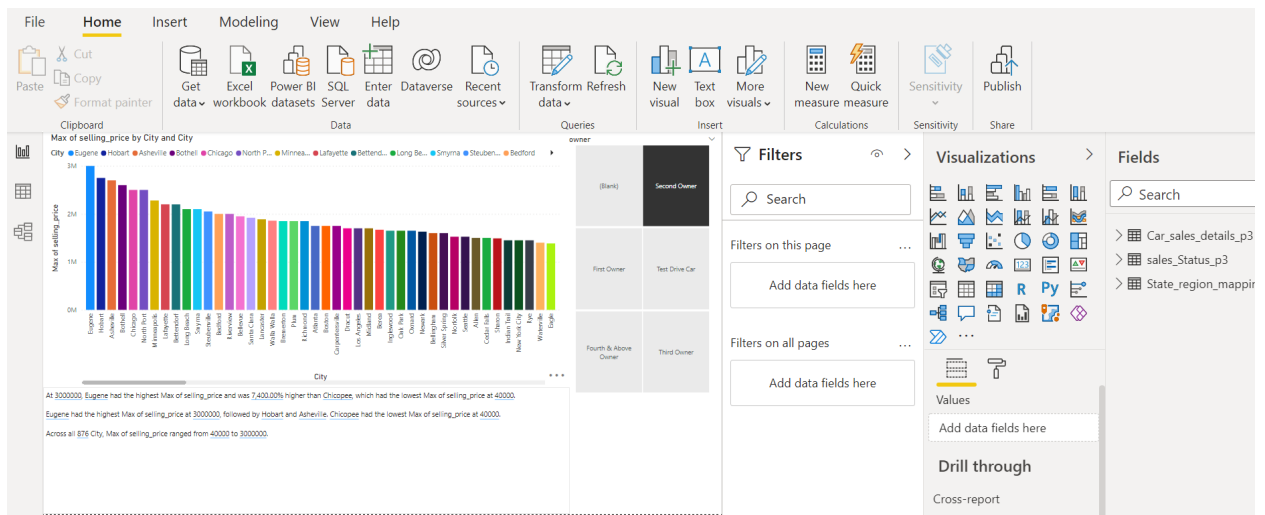
Transmission type vehicles were sold largely in number



Fuel type vehicle has the highest KM Driven



Average Mileage type by Fuel type



Cities where the used cars where the selling price was highest