

Module 8 Lab

Combining Data from Azure SQL Database and Azure Synapse Analytics in Power BI

Lab Exercise

Summary

Using the views in both the CarDealer database and your Azure Synapse workspace, Key West Cars would like you to create a Power BI report containing:

1. A stacked bar chart displaying revenue by car make and model;
2. A map showing number of cars sold by geography (using latitude and longitude of customer).

See the accompanying video solution for a complete walk-through.

1. Loading the Power BI Data Model

Challenge: Use Power Query to implement a star schema in a Power BI data model. The tables in your star schema and the data sources for each are as follows:

Data Model Table	Data Source	View
Sales	CarDealer	vCars
Cars	CarDealer	vSales
Dates	CarDealer	VDates
Customers	CarDealer and Azure Synapse Workspace	vCustomers and ZipCodeData

2. Create the Measures

Once the data model is loaded, create two measures within the Sales table:

1. Revenue. Use the SUM function to sum the SalesAmount column in the Sales table.
2. Number of Cars Sold. Use the COUNT function to count the number of SaleID values in the Sales table.

3. Create the Visualizations

After creating your two measures, create a report with two pages:

1. Name the first Revenue by Car Make and Model. It should contain a single stacked bar chart. The stacked bar chart should display Revenue by car make and model.
2. Name the second Cars Sold by Zip Code. It should contain a single map visualization. Use the Lat and Long columns from the Customers table to display location, and the number of cars sold to determine the size of the location bubble on the map.

Success! Challenge completed!