**Problem Statement**

Scenario: Contoso is an Automotive company that generates semi-structured data on a daily basis. They would like to use this data to draw meaningful insights. They approached you to build an end to end solution that addresses data ingestion, cleansing, preparation, analysis, and orchestration.

**Section – II SQL DW Loading and Tuning**

1. Load the data from Tables/DimProduct folder in demodata container, into a round robin table named DimProduct in Azure SQL DW. (Fix any errors you encounter while loading the table)

**Table Schema**

[ProductKey] [int] NOT NULL,

[ProductSubcategoryKey] [int] NULL,

[WeightUnitMeasureCode] [nchar](3) NULL,

[EnglishProductName] [nvarchar](50) NOT NULL,

[StandardCost] [money] NULL,

[ListPrice] [money] NULL,

[Size] [nvarchar](50) NULL,

[Weight] [float] NULL,

[StartDate] [datetime] NULL,

[EndDate] [datetime] NULL,

[Status] [nvarchar](7) NULL)

1. Create a user with minimum privileges to run the given query

select p.ProductKey, p.ProductSubcategoryKey, p.ListPrice

from FactInternetSales f

inner join DimProduct p on p.ProductKey = f.ProductKey

where ProductsubcategoryKey > 1

option (label ='airlift')

1. Optimize the table structure to make the query execute faster (hint: minimize data movement)

Use the following resources for guidance:

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/load-data-wideworldimportersdw>

<https://docs.microsoft.com/en-us/azure/data-factory/>

<https://docs.microsoft.com/en-us/azure/azure-databricks/>

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-manage-monitor>

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-manage-logins?toc=/azure/sql-data-warehouse/toc.json>