Lab 8 –Data Warehouse

1. Provision an Azure Synapse Analytics workspace

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1. Start the dedicated SQL pool

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1. View the tables in the database

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1. Query the data warehouse tables

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1. Use Ranking functions

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1. Retrieve an approximate count

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1. Analyze Reseller Sales

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1. Delete Azure Resources

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Summary:

Azure Synapse Analytics supports enterprise data warehousing with data transfer and transformation pipelines for loading data. A dedicated SQL pool is used for storing and querying data, efficiently pulling data from big data stores using PolyBase and storing it in columnar storage. The process begins with provisioning a workspace and exploring various fact and dimension tables in the dedicated SQL pool. Understanding the star schema and snowflake schema of the databases is crucial. By joining fact and dimension tables based on keys, we can analyze various business problems using FactInternetSales. Additionally, ranking functions are utilized to create sequences or ranks based on specific columns in the data warehouse. This allows for detailed analysis of fact reseller sales and gather insights into business problems.