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1. What is the purpose of data ingestion? 1 / 1 point

- (•) To capture data coming into a data warehouse system as quickly as possible.
- ( ) To carry out complex data transformations against data that has been received from external sources.
- ( ) To create visualizations on data as a result of data analysis.

Correct
Data ingestion can receive data from multiple sources, including streams, and must run quickly enough so that it doesn't lose any incoming data.

2. Data Factory provides an orchestration engine. What does the term orchestration mean in this context? 1 / 1 point

- ( ) Analyse data in a data warehouse
- (•) Direct, control and connect services
- ( ) Transform Data

Correct
Orchestration is the process of directing and controlling other services, and connecting them to allow data to flow between them. Data Factory uses orchestration to combine and automate sequences of tasks that use different services to perform complex operations.

3. What is a linked service in Data Factory? 1 / 1 point

- (•) A linked service provides the information needed for Data Factory to connect to a source or destination.
- ( ) A linked service is a connection created by a data engineer to connect on-premises and cloud-based storage for file shares.
- ( ) A linked service is a connection created by a data engineer for data visualizations.

Correct
Data Factory moves data from a data source to a destination. A linked service provides the information needed for Data Factory to connect to a source or destination such as Azure Blob Storage linked service to connect a storage account to Data Factory, or the Azure SQL Database linked service to connect to a SQL database.

4. Sometimes when ingesting data, the data you're bringing in can have different column names and data types to those required by the output. In these cases, which of the following options can you use to transform your data from the input format to the output format. 1 / 1 point

- ( ) Renaming
- ( ) Linking
- (•) Mapping

Correct
You can use mapping to transform your data from the input format to the output format. The columns from the input data can be mapped to the data format required by the output.

5. True or False? 1 / 1 point

SQL Server Integration Services (SSIS) is an on-premises utility that can extract and transform data from a wide variety of sources. These packages can be run as part of a data factory pipeline in the cloud.

- (•) True
- ( ) False

Correct
SSIS is an on-premises utility. However, Azure Data Factory allows you to run your existing SSIS packages as part of a pipeline in the cloud. This allows you to get started quickly without having to rewrite your existing transformation logic.

6. PolyBase is used to carry out which of the following? 1 / 1 point

- ○ To orchestrate activities in Azure Data Factory.
- ◉ To query data from external data sources using SQL Server.
- ○ To ingest streaming data using Azure Databricks.

Correct
PolyBase is a feature of SQL Server and Azure Synapse Analytics that enables you to run Transact-SQL queries that read data from external data sources.