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1. True or False? 1 / 1 point

A data warehouse can only contain non-relational data.

- ○ True
- ◉ False

Correct
A modern data warehouse might contain a mixture of relational and non-relational data, including files, social media streams, and Internet of Things (IoT) sensor data.

2. Which of the following statements accurately describe an Azure Data Factory? 1 / 1 point

- ◉ A Data integration Service
- ○ A Non-Relational Database management tool
- ○ A Relational Database management tool
- ○ A Data Query Service

Correct
Azure Data Factory is described as a data integration service.

3. True or False? 1 / 1 point

To ingest data in Azure Data Factory, the source data needs to be in Relational Data Format.

- ○ True
- ◉ False

Correct
Data presented to the Azure Data Factory may originate from many formats including relational and non-relational formats.

4. True or False? 1 / 1 point

A data lake and a data warehouse both store large quantities of data. However, a data lake holds raw data while a data warehouse holds structured information.

- ◉ True
- ○ False

Correct
A data lake and a data warehouse both store large quantities of data. However, a data lake holds raw data while a data warehouse holds structured information.

5. Azure Synapse Analytics leverages massively parallel processing (MPP) architecture. Which of the following does this architecture entail? 0.75 / 1 point

Select all options that apply.

- ☑ A pool of Compute nodes

Correct
Azure Synapse Analytics utilizes multiple compute nodes which provide the computational power. The data to be processed is distributed evenly across the nodes.

- ☐ A pool of Control nodes
- ☑ A single Control node

Correct
The Control node is the brain of the architecture. It's the front end that interacts with all applications.

The MPP engine runs on the Control node to optimize and coordinate parallel queries. When you submit a processing request, the Control node transforms it into smaller requests that run against distinct subsets of the data in parallel.

- [x] A single Compute node

This should not be selected
Azure Synapse Analytics utilizes multiple compute nodes which provide the computational power. The data to be processed is distributed evenly across the nodes.

6. Azure Analysis Services supports online analytical processing (OLAP) and has some functional overlaps with Azure Synapse Analytics. Which of the following scenarios would be more suitable for processing with Azure Synapse Analytics service over Azure Analysis Service? 1 / 1 point

- (•) Very high volumes of data (multi-terabyte to petabyte sized datasets)
- ( ) High read concurrency (thousands of users)
- ( ) Rapid dashboard development from tabular data

Correct
Use Azure Synapse Analytics for very high volumes of data (multi-terabyte to petabyte sized datasets).