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## Test prep

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1. The Azure Synapse Apache Spark to Synapse SQL connector is designed to efficiently transfer data between which of the following?

1 / 1 point

- ☒ Serverless Apache Spark pools and Dedicated SQL pools in Azure Synapse
- ☐ Serverless Apache Spark pools and Serverless SQL pools in Azure Synapse
- ☐ Dedicated Apache Spark pools and Serverless SQL pools in Azure Synapse

✓ **Correct**

The Azure Synapse Apache Spark to Synapse SQL connector is designed to efficiently transfer data between serverless Apache Spark pools and dedicated SQL pools in Azure Synapse.

2. You need to develop and execute transformation pipelines within the Azure Synapse Studio notebook experience. Which three of the following languages will help you in your task?

1 / 1 point

- ☐ JSON
- ☒ Python

✓ **Correct**

You can attach a SQL or Apache Spark pool, and develop and execute transformation pipelines using Python.

- ☒ SparkSQL

✓ **Correct**

You can attach a SQL or Apache Spark pool, and develop and execute transformation pipelines using SparkSQL.

- ☒ Scala

✓ **Correct**

You can attach a SQL or Apache Spark pool, and develop and execute transformation pipelines using Spark (Scala).

3. Which two of the following prerequisites are necessary to successfully authenticate an account between two different systems?

1 / 1 point

- ☒ The account used needs to be a member of the Storage Blob Data Contributor role on the default storage account.

✓ **Correct**

The account used needs to be a member of the Storage Blob Data Contributor role on the default storage account.

- ☐ The account used needs to be a member of Storage Blob Data Contributor role in the database or SQL pool from which you to transfer data to or from.

- ☒ The account used needs to be a member of db\_exporter role in the database or SQL pool from which you to transfer data to or from.

✓ **Correct**

The account used needs to be a member of db\_exporter role in the database or SQL pool from which you to transfer data to or from.

- ☐ The account used needs to be a member of the db\_exporter role on the default storage account.

4. In which of the following scenarios are you less likely to require import statements when transferring data between a dedicate SQL and Apache Spark pool?

1 / 1 point

- ☐ When relying on the use of token-based authentication.

- ☐ When using the Apache Spark PySpark connector.
- ☒ When using the Azure integrated notebook experience.

✓ **Correct**

Import statements are not needed since they are pre-loaded in case you use the Azure Synapse Studio integrated notebook experience.

5. Which of the following SQL pools can you use to efficiently transfer data between the Apache Spark cluster and the Azure Synapse SQL instance with the Azure Synapse Apache Spark pool to Synapse SQL connector?

1 / 1 point

- ☒ Azure Data Lake Storage Generation 2 and PolyBase
- ☐ Azure Data Lake Storage Generation 2 and JSON
- ☐ Azure Data Lake Storage Generation 2 and XML

✓ **Correct**

Azure Data Lake Storage Generation 2 and PolyBase in SQL pools can be used to efficiently transfer data between the Spark cluster and the Synapse SQL instance.

6. You need to transfer data to a dedicated SQL pool outside of the Azure Synapse Analytics workspace. Which form of Authentication can you use to complete this task?

1 / 1 point

- ☒ SQL Authentication Only
- ☐ None of the above
- ☐ Azure AD and SQL Authentication
- ☐ Azure AD only

✓ **Correct**

Currently, the Azure Synapse Apache Spark Pool to Synapse SQL connector does not support a token-based authentication to a dedicated SQL pool that is outside of the workspace of Synapse Analytics.

In order to establish and transfer data to a dedicated SQL pool that is outside of the workspace without Azure AD, you would have to use SQL Authentication.

7. Which one of the following languages does the Azure Synapse Apache Spark to Synapse SQL connector use?

1 / 1 point

- ☐ SQL
- ☐ .Net
- ☒ Scala
- ☐ Python

✓ **Correct**

The connector uses Scala to integrate Apache Spark pools with dedicated SQL pools in Azure Synapse Analytics.

8. You have created a table in a dedicated SQL pool with the Write API. Which one of the following resources can you use to load data into the table?

1 / 1 point

- ☒ Polybase
- ☐ ORC
- ☐ Parquet
- ☐ JSON

✓ **Correct**

The Write API creates a table in a dedicated SQL pool. It then invokes Polybase to load the data into the table that was created.

9. Which two of the following Azure Synapse Studio tabs can you use to access the Apache Spark history server?

1 / 1 point

- ☐ Manage
- ☐ Develop
- ☒ Data

✓ **Correct**

To open the Apache Spark History server you can navigate to the Data tab, where if you create a notebook and

read a DataFrame you can go to the bottom of the page and find the Spark History Server known as the Spark UI.

☒ Monitor

✓ **Correct**

If you want to navigate to the Apache Spark History server, you can navigate to the Azure Synapse Analytics Studio environment and go to the Monitor tab.

In the Monitor tab, you can select Apache Spark Applications and from there select Spark history server.

10. Which three of the following actions occur within existing nodes when you scale down Apache Spark pools?

1 / 1 point

☐ Nodes to be scaled down will be shut down immediately regardless of current state.

☐ Pending jobs will be lost.

☒ Pending jobs will be in a waiting state and scheduled for execution on fewer nodes.

✓ **Correct**

When you scale down Apache spark pools, pending jobs will be placed in a waiting state and scheduled for execution on fewer nodes.

☒ Nodes to be scaled down will be put in a decommissioned state.

✓ **Correct**

Nodes will be placed in a decommissioned state.

☒ Jobs that are still running will continue to run and finish.

✓ **Correct**

Running jobs will continue until completion.