



70-775^{Q&As}

Perform Data Engineering on Microsoft Azure HDInsight

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QUESTION 1

You have an Apache HBase cluster in Azure HDInsight. The cluster has a table named sales that contains a column family named customerfamily.

You need to add a new column family named customeraddr to the sales table.

How should you complete the command? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Values

- alter
- customeraddr
- disable
- enable
- create
- customerfamily
- drop

Answer area

```
Hbase > Value 'sales'
Hbase > Value 'sales'
' value '
{NAME=> ' Value '
IN_MEMORY => 'false' }
Hbase > Value 'sales'
```

Correct Answer:



Values

Empty input fields for values: create, drop

Answer area

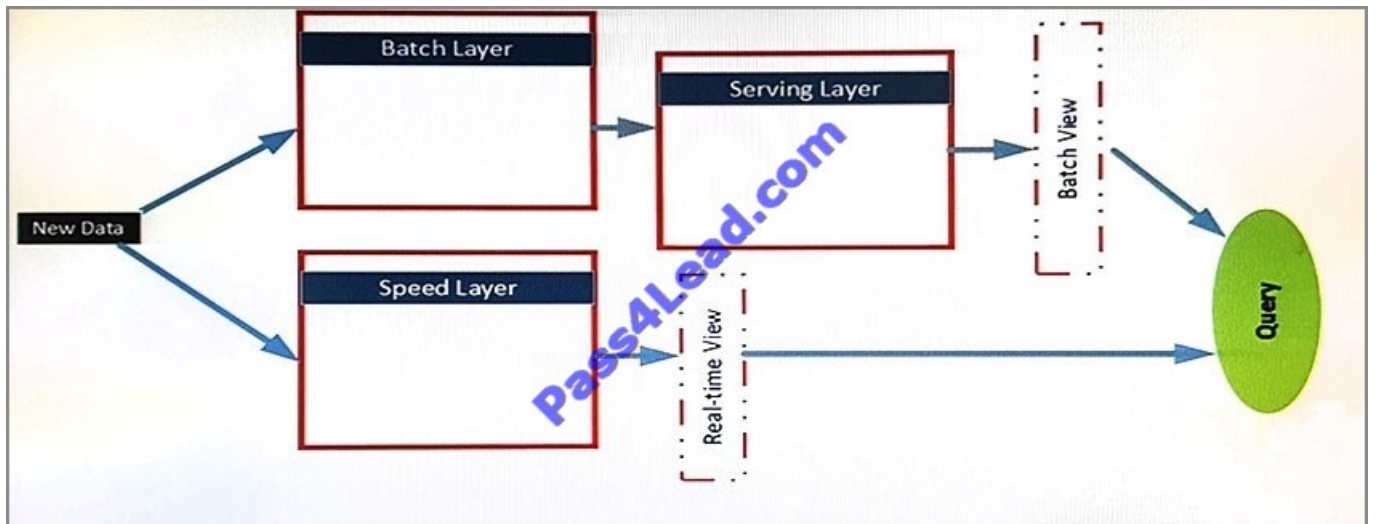
```
Hbase > disable 'sales'
Hbase > alter 'sales'
  'customerfamily',
  {NAME=> 'customeraddr',
  IN_MEMORY => 'false' }
Hbase > enable 'sales'
```

QUESTION 2

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

You are planning a big data infrastructure by using an Apache Spark cluster in Azure HDInsight. The cluster has 24 processor cores and 512 GB of memory.

The architecture of the infrastructure is shown in the exhibit. (Click the Exhibit button.)





The architecture will be used by the following users:

The data sources in the batch layer share a common storage container. The following data sources are used:

The business analysts report that they experience performance issues when they run the monitoring queries.

You troubleshoot the performance issues and discover that the intermediate tables generated when the analysts run the queries cause pressure for the Java Virtual Machine (JVM) garbage collection per job.

Which configuration settings should you modify to alleviate the performance issues?

- A. `spark.sql.inMemoryColumnarStorage.batchSize`
- B. `spark.sql.broadcastTimeout`
- C. `spark.sql.files.openCostInBytes`
- D. `spark.sql.shuffle.partitions`

Correct Answer: D

QUESTION 3

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You are implementing a batch processing solution by using Azure HDInsight.

You have a table that contains sales data.

You plan to implement a query that will return the number of orders by zip code.

You need to minimize the execution time of the queries and to maximize the compression level of the resulting data.

What should you do?

- A. Use a shuffle join in an Apache Hive query that stores the data in a JSON format.
- B. Use a broadcast join in an Apache Hive query that stores the data in an ORC format.
- C. Increase the number of `spark.executor.cores` in an Apache Spark job that stores the data in a text format.
- D. Increase the number of `spark.executor.instances` in an Apache Spark job that stores the data in a text format.
- E. Decrease the level of parallelism in an Apache Spark job that stores the data in a text format.
- F. Use an action in an Apache Oozie workflow that stores the data in a text format.
- G. Use an Azure Data Factory linked service that stores the data in Azure Data Lake.
- H. Use an Azure Data Factory linked service that stores the data in an Azure DocumentDB database.

Correct Answer: B



QUESTION 4

You have a domain-joined Apache Hadoop cluster in Azure HDInsight named hdcluster.

The Linux account for hdcluster is named Inxuser.

Your Active Directory account is named user1@fabrikam.com.

You need to run Hadoop commands from an SSH session.

Which credentials should you use? To answer, drag the appropriate credentials to the correct commands. Each credential may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view

content.

NOTE: Each correct selection is worth one point.

Select and Place:

Credentials

- Inxuser@hdcluster
- Inxuser@hdcluster-ssh.azurehdinsight.net
- user1@fabrikam.com
- user1@fabrikam.com.hdinsight.net

Answer Area

- SSH: Credential
- Knit Credential

Correct Answer:

Credentials

- Inxuser@hdcluster-ssh.azurehdinsight.net
- user1@fabrikam.com.hdinsight.net

Answer Area

- SSH: Inxuser@hdcluster
- Knit user1@fabrikam.com

**QUESTION 5**

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You need to deploy an HDInsight cluster that will provide in-memory processing, interactive queries, and micro-batch stream processing. The cluster has the following requirements:

What should you do?

- A. Use an Azure PowerShell script to create and configure a premium HDInsight cluster. Specify Apache Hadoop as the cluster type and use Linux as the operating system.
- B. Use the Azure portal to create a standard HDInsight cluster. Specify Apache Spark as the cluster type and use Linux as the operating system.
- C. Use an Azure PowerShell script to create a standard HDInsight cluster. Specify Apache HBase as the cluster type and use Windows as the operating system.
- D. Use an Azure PowerShell script to create a standard HDInsight cluster. Specify Apache Storm as the cluster type and use Windows as the operating system.
- E. Use an Azure PowerShell script to create a premium HDInsight cluster. Specify Apache HBase as the cluster type and use Linux as the operating system.
- F. Use an Azure portal to create a standard HDInsight cluster. Specify Apache Interactive Hive as the cluster type and use Linux as the operating system.
- G. Use an Azure portal to create a standard HDInsight cluster. Specify Apache HBase as the cluster type and use Linux as the operating system.

Correct Answer: B

References: <https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-apache-spark-overview>

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