



# 70-775<sup>Q&As</sup>

Perform Data Engineering on Microsoft Azure HDInsight

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### QUESTION 1

You plan to copy data from Azure Blob storage to an Azure SQL database by using Azure Data Factory. Which file formats can you use?

- A. binary, JSON, Apache Parquet, and ORC
- B. OXPS, binary, text and JSON
- C. XML, Apache Avro, text, and ORC
- D. text, JSON, Apache Avro, and Apache Parquet

Correct Answer: D

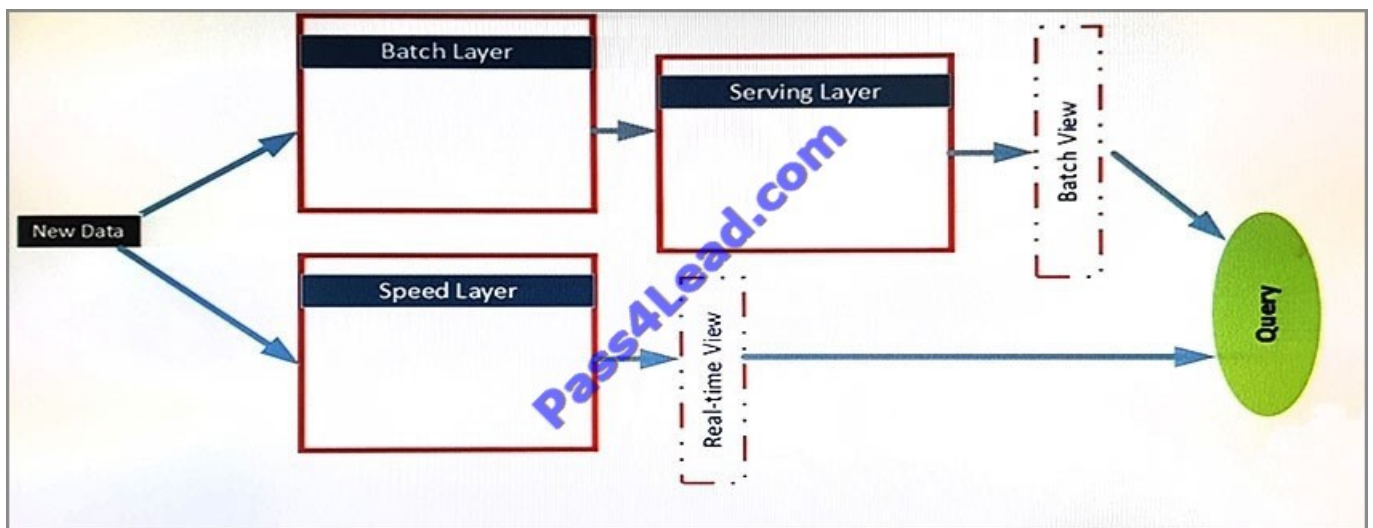
References: <https://docs.microsoft.com/en-us/azure/data-factory/supported-file-formats-and-compression-codecs>

### 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

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### QUESTION 3

You have an Azure HDInsight cluster.

You need to build a solution to ingest real-time streaming data into a nonrelational distributed database.

What should you use to build the solution?

- A. Apache Hive and Apache Kafka
- B. Spark and Phoenix
- C. Apache Storm and Apache HBase
- D. Apache Pig and Apache HCatalog

Correct Answer: C

<http://storm.apache.org/> <http://hbase.apache.org/>

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### QUESTION 4

You have an Apache Hive table that contains one billion rows.

You plan to use queries that will filter the data by using the WHERE clause. The values of the columns will be known only while the data loads into a Hive table.

You need to decrease the query runtime.

What should you configure?

- A. static partitioning
- B. bucket sampling
- C. parallel execution
- D. dynamic partitioning



Correct Answer: C

References: <https://www.qubole.com/blog/5-tips-for-efficient-hive-queries/>

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#### QUESTION 5

You are configuring the Hive views on an Azure HDInsight cluster that is configured to use Kerberos.

You plan to use the YARN logs to troubleshoot a query that runs against Apache Hadoop.

You need to view the method, the service, and the authenticated account used to run the query.

Which method call should you view in the YARN logs?

- A. HQL
- B. WebHDFS
- C. HDFS C\* API
- D. Ambari RESR API

Correct Answer: D

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