



DP-201^{Q&As}

Designing an Azure Data Solution

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QUESTION 1

You need to design the image processing solution to meet the optimization requirements for image tag data.

What should you configure? To answer, drag the appropriate setting to the correct drop targets.

Each source 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:

Answer Area

Configurations	Location	Configuration
<input type="text" value="Write region"/>	New York	<input type="text"/>
<input type="text" value="Read region"/>	Manchester	<input type="text"/>
	Singapore	<input type="text"/>
	Melbourne	<input type="text"/>

Correct Answer:



Answer Area



Tagging data must be uploaded to the cloud from the New York office location.

Tagging data must be replicated to regions that are geographically close to company office locations.

QUESTION 2

You need to recommend a solution that meets the data platform requirements of Health Interface. The solution must minimize redevelopment efforts for the application.

What should you include in the recommendation?

- A. Azure SQL Data Warehouse
- B. Azure SQL Database
- C. Azure Cosmos DB that uses the SQL API
- D. Azure Cosmos DB that uses the Table API

Correct Answer: C

Scenario: ADatum identifies the following requirements for the Health Interface application:

1.
Reduce the amount of development effort to rewrite existing SQL queries.
2.
Upgrade to a data storage solution that will provide flexible schemas and increased throughput for writing data. Data must be regionally located close to each hospital, and reads must display be the most recent committed version of an item.



3.

Reduce the amount of time it takes to add data from new hospitals to Health Interface.

4.

Support a more scalable batch processing solution in Azure.

QUESTION 3

You are designing a solution for the ad hoc analysis of data in Azure Databricks notebooks. The data will be stored in Azure Blob storage.

You need to ensure that Blob storage will support the recovery of the data if the data is overwritten accidentally.

What should you recommend?

- A. Enable soft delete.
- B. Add a resource lock.
- C. Enable diagnostics logging.
- D. Use read-access geo-redundant storage (RA-GRS).

Correct Answer: A

Soft delete protects blob data from being accidentally or erroneously modified or deleted. When soft delete is enabled for a storage account, blobs, blob versions (preview), and snapshots in that storage account may be recovered after they are deleted, within a retention period that you specify.

Reference: <https://docs.microsoft.com/en-us/azure/storage/blobs/soft-delete-overview>

QUESTION 4

HOTSPOT

You are designing a data processing solution that will run as a Spark job on an HDInsight cluster. The solution will be used to provide near real-time information about online ordering for a retailer.

The solution must include a page on the company intranet that displays summary information.

The summary information page must meet the following requirements:

1. Display a summary of sales to date grouped by product categories, price range, and review scope.
2. Display sales summary information including total sales, sales as compared to one day ago and sales as compared to one year ago.
3. Reflect information for new orders as quickly as possible.

You need to recommend a design for the solution.



What should you recommend? To answer, select the appropriate configuration in the answer area.

Hot Area:

Answer Area

Use case	Technology
Data abstraction	<input type="text"/> Resilient Distributed Dataset (RDD) Dataset DataFrame
Data format	<input type="text"/> Avro parquet

Correct Answer:

Answer Area

Use case	Technology
Data abstraction	<input type="text"/> Resilient Distributed Dataset (RDD) Dataset DataFrame
Data format	<input type="text"/> Avro parquet

Explanation:

Box 1: DataFrame



DataFrames

Best choice in most situations.

Provides query optimization through Catalyst.

Whole-stage code generation.

Direct memory access.

Low garbage collection (GC) overhead.

Not as developer-friendly as DataSets, as there are no compile-time checks or domain object programming.

Box 2: parquet

The best format for performance is parquet with snappy compression, which is the default in Spark 2.x. Parquet stores data in columnar format, and is highly optimized in Spark.

Incorrect Answers:

DataSets

Good in complex ETL pipelines where the performance impact is acceptable.

Not good in aggregations where the performance impact can be considerable.

RDDs

You do not need to use RDDs, unless you need to build a new custom RDD.

No query optimization through Catalyst.

No whole-stage code generation.

High GC overhead.

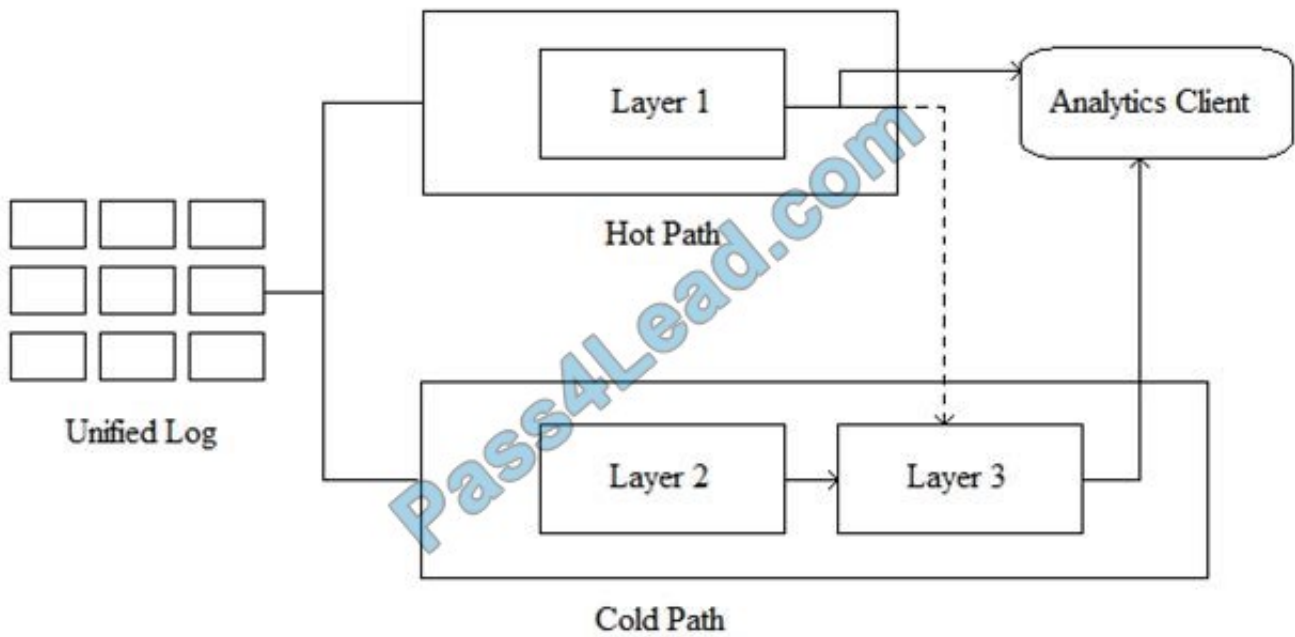
References:

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

QUESTION 5

DRAG DROP

You are planning a design pattern based on the Lambda architecture as shown in the exhibit.



Which Azure services should you use f2 or the cold path? To answer, drag the appropriate services to the correct layers. Each service 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:

Services

- Azure Data Lake Storage Gen2
- Azure Event Hubs
- Azure Log Analytics
- Azure SQL Data Warehouse

Answer Area

- Layer2:
- Layer3:

Correct Answer:



Services

Answer Area

Layer2:

Layer3:

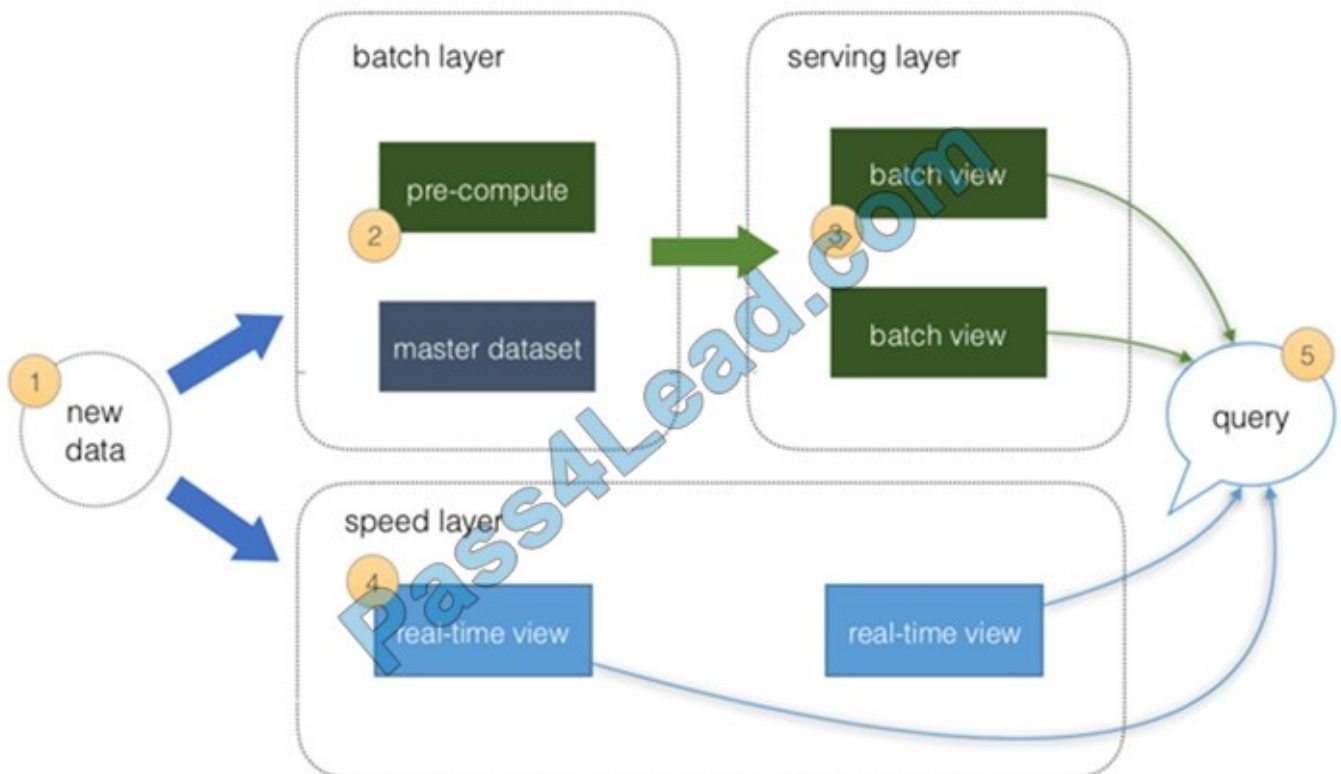
Explanation:

Layer 2: Azure Data Lake Storage Gen2

Layer 3: Azure SQL Data Warehouse

Azure SQL Data Warehouse can be used for batch processing.

Note: Lambda architectures use batch-processing, stream-processing, and a serving layer to minimize the latency involved in querying big data.



References: <https://azure.microsoft.com/en-us/blog/lambda-architecture-using-azure-cosmosdb-faster-performance-low-tco-low-devops/>

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/batch-processing>



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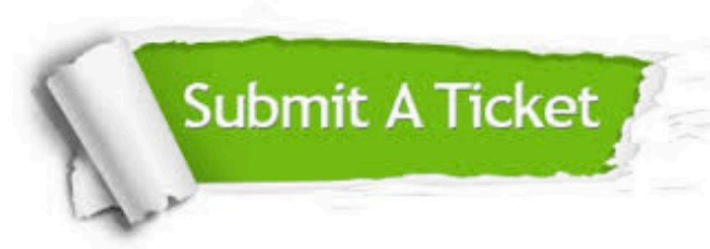
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