DP-201^{Q&As}

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Designing an Azure Data Solution

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QUESTION 1

What should you recommend as a batch processing solution for Health Interface?

A. Azure CycleCloud

B. Azure Stream Analytics

C. Azure Data Factory

D. Azure Databricks

Correct Answer: B

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

Support a more scalable batch processing solution in Azure.

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

Data Factory integrates with the Azure Cosmos DB bulk executor library to provide the best performance when you write to Azure Cosmos DB.

References:

https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-cosmos-db

QUESTION 2

You are designing an audit strategy for an Azure SQL Database environment.

You need to recommend a solution to provide real-time notifications for potential security breaches. The solution must minimize development effort.

Which destination should you include in the recommendation?

A. Azure Blob storage

B. Azure SQL Data Warehouse

C. Azure Event Hubs

D. Azure Log Analytics

Correct Answer: D

Auditing for Azure SQL Database and SQL Data Warehouse tracks database events and writes them to an audit log in your Azure storage account, Log Analytics workspace or Event Hubs.

Alerts in Azure Monitor can identify important information in your Log Analytics repository. They are created by alert rules that automatically run log searches at regular intervals, and if results of the log search match particular criteria, then an

alert record is created and it can be configured to perform an automated response.

References:

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing https://docs.microsoft.com/en-us/azure/azure-monitor/learn/tutorial-response

QUESTION 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

A company is developing a solution to manage inventory data for a group of automotive repair shops. The solution will use Azure SQL Data Warehouse as the data store.

Shops will upload data every 10 days.

Data corruption checks must run each time data is uploaded. If corruption is detected, the corrupted data must be removed.

You need to ensure that upload processes and data corruption checks do not impact reporting and analytics processes that use the data warehouse.

Proposed solution: Configure database-level auditing in Azure SQL Data Warehouse and set retention to 10 days.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, create a user-defined restore point before data is uploaded. Delete the restore point after data corruption checks complete.

References: https://docs.microsoft.com/en-us/azure/sql-data-warehouse/backup-and-restore

QUESTION 4

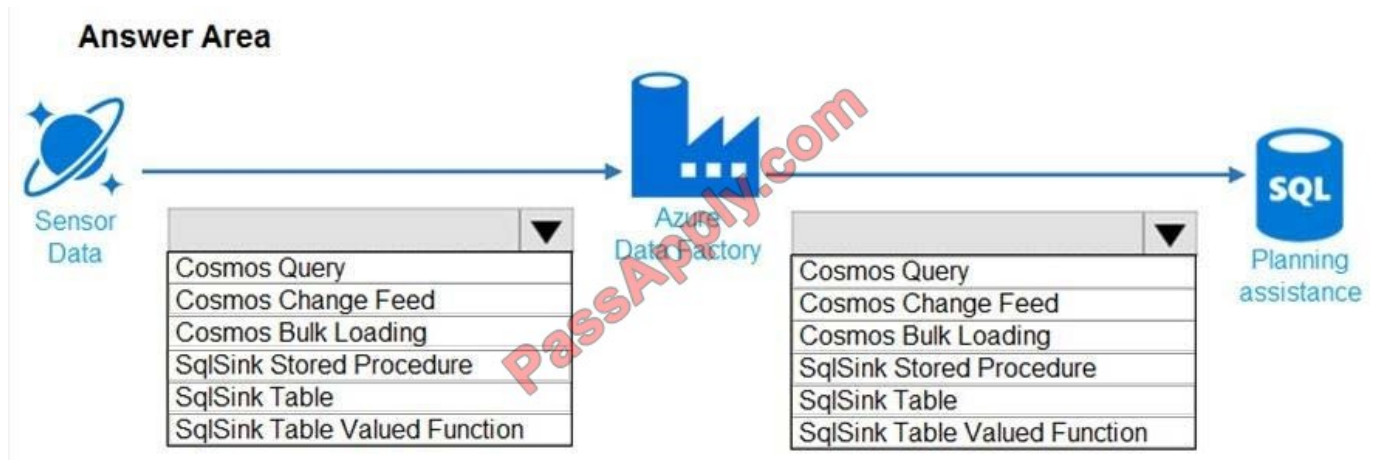You need to design the data loading pipeline for Planning Assistance.

What should you recommend? To answer, drag the appropriate technologies to the correct locations. Each technology 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
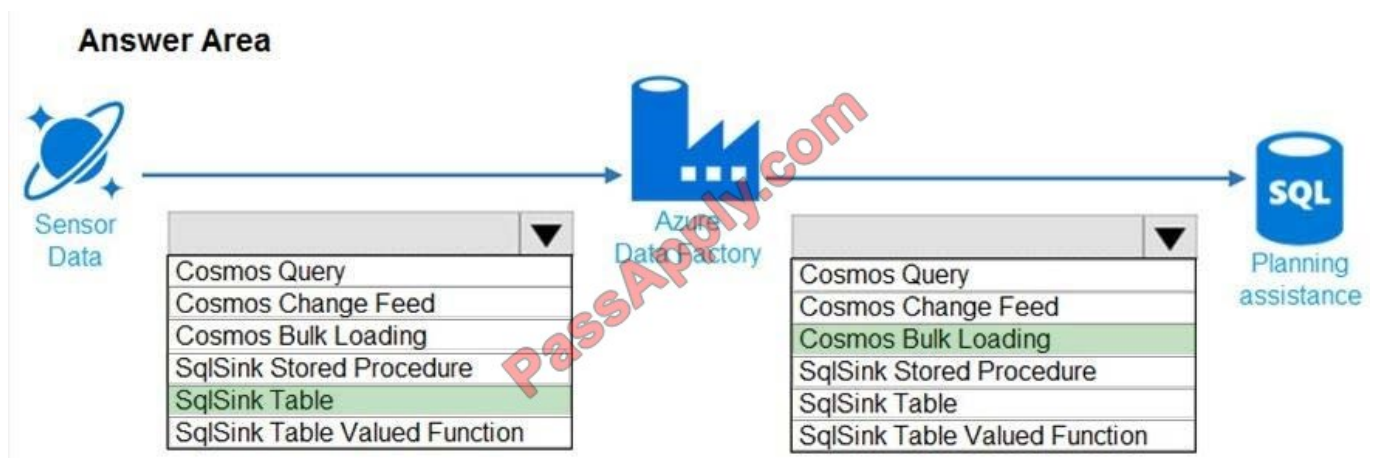
content.

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Box 1: SqlSink Table

Sensor data must be stored in a Cosmos DB named treydata in a collection named SensorData

Box 2: Cosmos Bulk Loading

Use Copy Activity in Azure Data Factory to copy data from and to Azure Cosmos DB (SQL API).

Scenario: Data from the Sensor Data collection will automatically be loaded into the Planning Assistance database once a week by using Azure Data Factory. You must be able to manually trigger the data load process.

Data used for Planning Assistance must be stored in a sharded Azure SQL Database.

References:

https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-cosmos-db

QUESTION 5

You need to design a solution that meets the business requirements of Health Insights.

What should you include in the recommendation?

A. Azure Cosmos DB that uses the Gremlin

B. Azure Data Factory

C. Azure Cosmos DB that uses the SQL API

D. Azure Databricks

Correct Answer: D

Azure SQL Data Warehouse is a cloud-based enterprise data warehouse that leverages massively parallel processing (MPP) to quickly run complex queries across petabytes of data. Use SQL Data Warehouse as a key component of a big

data solution.

You can access Azure SQL Data Warehouse (SQL DW) from Databricks using the SQL Data Warehouse connector (referred to as the SQL DW connector), a data source implementation for Apache Spark that uses Azure Blob Storage, and

PolyBase in SQL DW to transfer large volumes of data efficiently between a Databricks cluster and a SQL DW instance.

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

The new Health Insights application must be built on a massively parallel processing (MPP) architecture that will support the high performance of joins on large fact tables

References:

https://docs.databricks.com/data/data-sources/azure/sql-data-warehouse.html

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