



## Designing an Azure Data Solution

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#### **QUESTION 1**

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.

You have an Azure SQL database that has columns. The columns contain sensitive Personally Identifiable Information (PII) data.

You need to design a solution that tracks and stores all the queries executed against the PII data. You must be able to review the data in Azure Monitor, and the data must be available for at least 45 days.

Solution: You execute a daily stored procedure that retrieves queries from Query Store, looks up the column classifications, and stores the results in a new table in the database.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead add classifications to the columns that contain sensitive data and turn on Auditing.

Note: Auditing has been enhanced to log sensitivity classifications or labels of the actual data that were returned by the query. This would enable you to gain insights on who is accessing sensitive data.

Reference:

https://azure.microsoft.com/en-us/blog/announcing-public-preview-of-data-discovery-classification-for-microsoft-azure-sql-data-warehouse/

#### **QUESTION 2**

You need to design the runtime environment for the Real Time Response system. What should you recommend?

A. General Purpose nodes without the Enterprise Security package

B. Memory Optimized Nodes without the Enterprise Security package

C. Memory Optimized nodes with the Enterprise Security package

D. General Purpose nodes with the Enterprise Security package

Correct Answer: B

Scenario: You must maximize the performance of the Real Time Response system.

#### **QUESTION 3**

DRAG DROP



You are designing an Azure SQL Data Warehouse for a financial services company. Azure Active Directory will be used to authenticate the users.

You need to ensure that the following security requirements are met:

1.

Department managers must be able to create new database.

2.

The IT department must assign users to databases.

3.

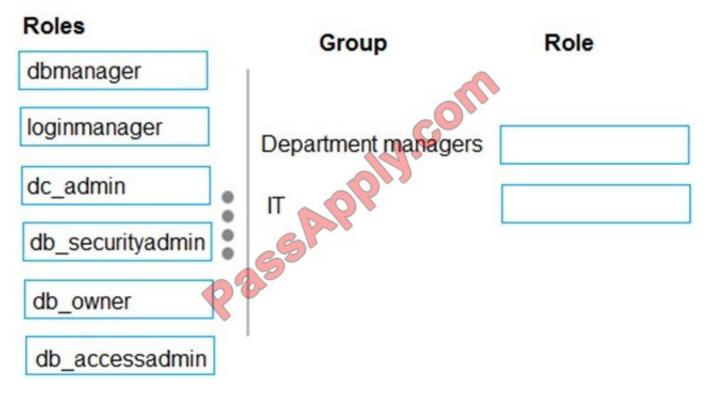
Permissions granted must be minimized.

Which role memberships should you recommend? To answer, drag the appropriate roles to the correct groups. Each role 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.

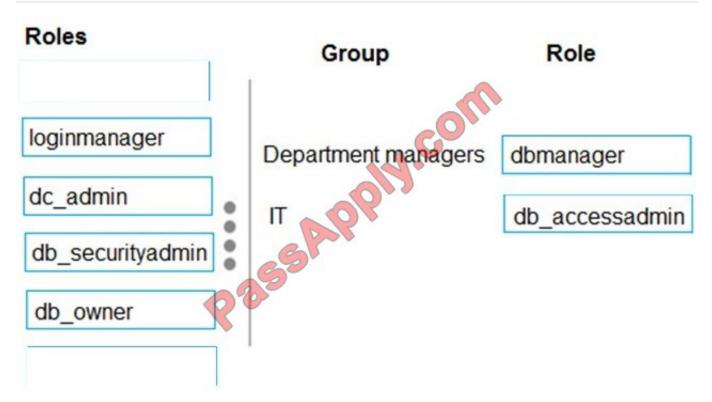
NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:





#### Box 1: dbmanager

Members of the dbmanager role can create new databases.

Box 2: db\_accessadmin

Members of the db\_accessadmin fixed database role can add or remove access to the database for Windows logins, Windows groups, and SQL Server logins.

References:

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-manage-logins

### **QUESTION 4**

You are designing an anomaly detection solution for streaming data from an Azure IoT hub. The solution must meet the following requirements:

Send the output to Azure Synapse.

Identify spikes and dips in time series data.

Minimize development and configuration effort

Which should you include in the solution?

- A. Azure Databricks
- **B.** Azure Stream Analytics



### C. Azure SQL Database

#### Correct Answer: B

You can identify anomalies by routing data via IoT Hub to a built-in ML model in Azure Stream Analytics.

Reference: https://docs.microsoft.com/en-us/learn/modules/data-anomaly-detection-using-azure-iot-hub/

### **QUESTION 5**

You design data engineering solutions for a company.

A project requires analytics and visualization of large set of data. The project has the following requirements:

1.

Notebook scheduling

2.

Cluster automation

3.

Power BI Visualization

You need to recommend the appropriate Azure service.

Which Azure service should you recommend?

A. Azure Batch

- **B.** Azure Stream Analytics
- C. Azure ML Studio
- D. Azure Databricks
- E. Azure HDInsight
- Correct Answer: D

A databrick job is a way of running a notebook or JAR either immediately or on a scheduled basis.

Azure Databricks has two types of clusters: interactive and job. Interactive clusters are used to analyze data collaboratively with interactive notebooks. Job clusters are used to run fast and robust automated workloads using the UI or API.

You can visualize Data with Azure Databricks and Power BI Desktop.

References:

https://docs.azuredatabricks.net/user-guide/clusters/index.html

https://docs.azuredatabricks.net/user-guide/jobs.html



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