Correct Answer: C
Explanation:
https://docs.microsoft.com/en-us/azure/dms/dms-overview
QUESTION 4
Which audit log destination should you use to meet the monitoring requirements?

A.   Azure Storage
B.   Azure Event Hubs
C.   Azure Log Analytics
D.   None of the above

Correct Answer: C
Explanation:
Scenario: Use a single dashboard to review security and audit data for all the PaaS databases.

With dashboards can bring together operational data that is most important to IT across all your Azure resources, including telemetry from Azure Log Analytics.

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

Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/visualize/tutorial-logs-dashboards

QUESTION 5
You need to implement a solution to notify the administrators. The solution must meet the monitoring requirements. What should you do?

A.   Create an Azure Monitor alert rule that has a static threshold and assign the alert rule to an action group.
B.   Add a diagnostic setting that logs QueryStoreRuntimeStatistics and streams to an Azure event hub.
C.   Add a diagnostic setting that logs Timeouts and streams to an Azure event hub.
D.   Create an Azure Monitor alert rule that has a dynamic threshold and assign the alert rule to an action group.

Correct Answer: D
Explanation:
https://azure.microsoft.com/en-gb/blog/announcing-azure-monitor-aiops-alerts-with-dynamic-thresholds/

QUESTION 6
HOTSPOT
You are evaluating the role assignments.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Statements	Yes	No
DBAGroup1 will be able to sign in to each customer's Azure SQL database by using Azure Data Studio.	○	○
DBAGroup1 will be able to assign the SQL DB Contributor role to other users.	○	○
DBAGroup2 will be able to create a new Azure SQL database on each customer's Azure SQL Database server.	○	○

Correct Answer:

Statements	Yes	No
DBAGroup1 will be able to sign in to each customer's Azure SQL database by using Azure Data Studio.	⊙	○
DBAGroup1 will be able to assign the SQL DB Contributor role to other users.	○	⊙
DBAGroup2 will be able to create a new Azure SQL database on each customer's Azure SQL Database server.	⊙	○

Topic 3, ADatum Corporation

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study
To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview
ADatum Corporation is a retailer that sells products through two sales channels: retail stores and a website.

Existing Environment
ADatum has one database server that has Microsoft SQL Server 2016 installed. The server hosts three mission-critical databases named SALESDB, DOCDB, and REPORTINGDB.

SALESDB collects data from the stores and the website.

DOCDB stores documents that connect to the sales data in SALESDB. The documents are stored in two different JSON formats based on the sales channel.

REPORTINGDB stores reporting data and contains several columnstore indexes. A daily process creates reporting data in REPORTINGDB from the data in SALESDB. The process is implemented as a SQL Server Integration Services (SSIS) package that runs a stored procedure from SALESDB.

Requirements
Planned Changes
ADatum plans to move the current data infrastructure to Azure. The new infrastructure has the following requirements:

▪ Migrate SALESDB and REPORTINGDB to an Azure SQL database.
▪ Migrate DOCDB to Azure Cosmos DB.
▪ The sales data, including the documents in JSON format, must be gathered as it arrives and analyzed online by using Azure Stream Analytics. The analytics process will perform aggregations that must be done continuously, without gaps, and without overlapping.
▪ As they arrive, all the sales documents in JSON format must be transformed into one consistent format.
▪ Azure Data Factory will replace the SSIS process of copying the data from SALESDB to REPORTINGDB.

Technical Requirements
The new Azure data infrastructure must meet the following technical requirements:

▪ Data in SALESDB must encrypted by using Transparent Data Encryption (TDE). The encryption must use your own key.
▪ SALESDB must be restorable to any given minute within the past three weeks.
▪ Real-time processing must be monitored to ensure that workloads are sized properly based on actual usage patterns.
▪ Missing indexes must be created automatically for REPORTINGDB.
▪ Disk IO, CPU, and memory usage must be monitored for SALESDB.

QUESTION 1
Which counter should you monitor for real-time processing to meet the technical requirements?

A. SU% Utilization
B. CPU% utilization
C. Concurrent users
D. Data Conversion Errors

Correct Answer: B
Explanation:
Scenario: Real-time processing must be monitored to ensure that workloads are sized properly based on actual usage patterns.

To monitor the performance of a database in Azure SQL Database and Azure SQL Managed Instance, start by monitoring the CPU and IO resources used by your workload relative to the level of database performance you chose in selecting a particular service tier and performance level.

Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/monitor-tune-overview

QUESTION 2
Which windowing function should you use to perform the streaming aggregation of the sales data?

A. Sliding
B. Hopping
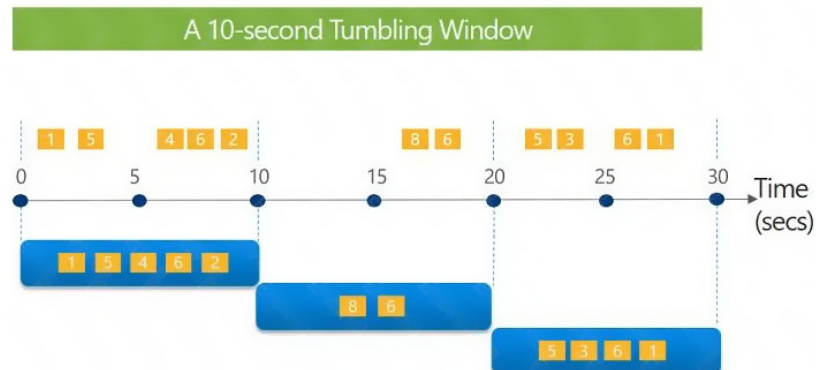C. Session
D. Tumbling

Correct Answer: D
Explanation:
Scenario: The sales data, including the documents in JSON format, must be gathered as it arrives and analyzed online by using Azure Stream Analytics. The analytics process will perform aggregations that must be done continuously, without gaps, and without overlapping.

Tumbling window functions are used to segment a data stream into distinct time segments and perform a function against them, such as the example below. The key differentiators of a Tumbling window are that they repeat, do not overlap, and an event cannot belong to more than one tumbling window.

Timeline Description automatically generated

Reference:
https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/stream-analytics/stream-analytics-window-functions.md

Topic 4, Contoso Ltd Clothing Store

QUESTION 1
HOTSPOT
You need to design an analytical storage solution for the transactional data. The solution must meet the sales transaction dataset requirements.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Table type to store retail store data:
- Hash
- Replicated
- Round-robin

Table type to store promotional data:
- Hash
- Replicated
- Round-robin

Correct Answer:

Table type to store retail store data:
- Hash
- Replicated
- Round-robin

Table type to store promotional data:
- Hash
- Replicated
- Round-robin

QUESTION 2
You need to implement the surrogate key for the retail store table. The solution must meet the sales transaction dataset requirements. What should you create?

A.   a table that has a FOREIGN KEY constraint
B.   a table the has an IDENTITY property
C.   a user-defined SEQUENCE object
D.   a system-versioned temporal table

Correct Answer: B
Explanation:
Scenario: Contoso requirements for the sales transaction dataset include:

Implement a surrogate key to account for changes to the retail store addresses.

A surrogate key on a table is a column with a unique identifier for each row. The key is not generated from the table data. Data modelers like to create surrogate keys on their tables when they design data warehouse models. You can use the IDENTITY property to achieve this goal simply and effectively without affecting load performance.