

Practice DP-203 Engine | New DP-203 Exam Test

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Nghiên cứu các hệ thống tích hợp với Core banking:

1. Bạn thường sử dụng các loại hệ thống tích hợp nào? Liệt kê và mô tả ngắn gọn về chúng.
2. Bạn muốn sử dụng hệ thống tích hợp nào nhất? Tại sao?
3. Theo thực trạng hiện nay, bạn quan ngại vấn đề nào của hệ thống ngân hàng? Tại sao?

Trả lời

Câu 1:

- Tích hợp core banking với NAPAS thông qua chuẩn ISO 8583 / API. Đây là lớp tích hợp cho phép kết nối trực tiếp giữa core banking và hệ thống chuyển mạch tài chính NAPAS. Luồng giao dịch thanh toán thẻ, chuyển khoản 24/7, QR và clearing được truyền và xác thực theo thời gian thực. Việc sử dụng ISO 8583 cho phép đảm bảo tính toàn vẹn message, cấu trúc data field chuẩn hóa và giảm sai lệch dữ liệu trong xử lý liên ngân hàng.

- Middleware/ESB phục vụ điều phối message đến NAPAS: Trong nhiều ngân hàng, lớp tích hợp ESB hoặc API Gateway đóng vai trò routing, transformation và load balancing nhằm giảm áp lực xử lý trực tiếp lên core banking và tránh tình trạng nghẽn giao dịch.

- Hệ thống reconciliation đối soát với NAPAS: Phục vụ đối chiếu file settlement, xử lý tra soát và bù trừ giao dịch, đảm bảo dữ liệu khớp chính xác giữa số cái core và clearing report từ NAPAS. Điều này giúp ngân hàng hạn chế rủi ro kế toán và sai lệch số dư khách hàng.

Câu 2:

- Tối ưu hóa hiệu năng xử lý giao dịch (transaction throughput & latency):

+ Luồng giao dịch kết nối trực tiếp giữa core banking và NAPAS giúp giảm độ trễ (latency) so với mô hình qua nhiều tầng middleware.

+ Message chuẩn ISO 8583 giúp giảm overhead data, tăng tốc độ truyền.

+ Khi kết hợp Gateway middleware, có thể thực hiện load balancing, queue management, giúp hệ thống duy trì throughput ổn định trong giờ cao điểm giao dịch 24/7.

- Chuẩn hóa giao thức tích hợp và nâng cao tính tương thích hệ thống

Trang 1

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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q329-Q334):

NEW QUESTION # 329

You have an Azure Synapse Analytics dedicated SQL pool named Pool1. Pool1 contains a fact table named Table1. Table1 contains sales data. Sixty-five million rows of data are added to Table1 monthly.

At the end of each month, you need to remove data that is older than 36 months. The solution must minimize how long it takes to remove the data.

How should you partition Table1, and how should you remove the old data? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

NEW QUESTION # 330

You have a SQL pool in Azure Synapse.

A user reports that queries against the pool take longer than expected to complete.

You need to add monitoring to the underlying storage to help diagnose the issue.

Which two metrics should you monitor? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Cache hit percentage
- B. Snapshot Storage Size
- C. Cache used percentage
- D. DWU Limit
- E. Active queries

Answer: A,C

Explanation:

A: Cache used is the sum of all bytes in the local SSD cache across all nodes and cache capacity is the sum of the storage capacity of the local SSD cache across all nodes.

E: Cache hits is the sum of all columnstore segments hits in the local SSD cache and cache miss is the columnstore segments misses in the local SSD cache summed across all nodes Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-concept-resource-utilization-query-activity>

NEW QUESTION # 331

You have an Azure Synapse Analytics workspace named WS1.

You have an Azure Data Lake Storage Gen2 container that contains JSON-formatted files in the following format.

You need to use the serverless SQL pool in WS1 to read the files.

How should you complete the Transact-SQL statement? To answer, drag the appropriate values to the correct targets. Each value 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.

Answer:

Explanation:

Explanation

Graphical user interface, text, application, email Description automatically generated

Box 1: openrowset

The easiest way to see to the content of your CSV file is to provide file URL to OPENROWSET function, specify csv FORMAT.

Example:

```
SELECT *  
FROM OPENROWSET(  
    BULK 'csv/population/population.csv',  
    DATA_SOURCE = 'SqlOnDemandDemo',  
    FORMAT = 'CSV', PARSER_VERSION = '2.0',  
    FIELDTERMINATOR = ',',  
    ROWTERMINATOR = '\n'
```

Box 2: openjson

You can access your JSON files from the Azure File Storage share by using the mapped drive, as shown in the following example:

```
SELECT book.* FROM  
OPENROWSET(BULK N't:\books\books.json', SINGLE_CLOB) AS json  
CROSS APPLY OPENJSON(BulkColumn)  
WITH( id nvarchar(100), name nvarchar(100), price float,  
pages_i int, author nvarchar(100)) AS book
```

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/query-single-csv-file>

<https://docs.microsoft.com/en-us/sql/relational-databases/json/import-json-documents-into-sql-server>

NEW QUESTION # 332

You have an Azure Data Factory pipeline that has the activities shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Reference:

<https://datasavvy.me/2021/02/18/azure-data-factory-activity-failures-and-pipeline-outcomes/>

NEW QUESTION # 333

You have an Apache Spark DataFrame named temperatures. A sample of the data is shown in the following table.

You need to produce the following table by using a Spark SQL query.

How should you complete the query? To answer, drag the appropriate values to the correct targets. Each value 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.

Answer:

Explanation:

Explanation

Text Description automatically generated

Box 1: PIVOT

PIVOT rotates a table-valued expression by turning the unique values from one column in the expression into multiple columns in the output. And PIVOT runs aggregations where they're required on any remaining column values that are wanted in the final output.

Reference:

<https://learnsql.com/cookbook/how-to-convert-an-integer-to-a-decimal-in-sql-server/>

<https://docs.microsoft.com/en-us/sql/t-sql/queries/from-using-pivot-and-unpivot>

NEW QUESTION # 334

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