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>> DP-203熱門考古題 <<

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最新的 Microsoft Certified: Azure Data Engineer Associate DP-203 免費考試真題 (Q349-Q354):

問題 #349

You are designing a fact table named FactPurchase in an Azure Synapse Analytics dedicated SQL pool. The table contains purchases from suppliers for a retail store. FactPurchase will contain the following columns.

FactPurchase will have 1 million rows of data added daily and will contain three years of data.

Transact-SQL queries similar to the following query will be executed daily.

```
SELECT
```

```
SupplierKey, StockItemKey, COUNT(*)
```

```
FROM FactPurchase
```

```
WHERE DateKey >= 20210101
```

```
AND DateKey <= 20210131
```

```
GROUP BY SupplierKey, StockItemKey
```

Which table distribution will minimize query times?

- A. hash-distributed on PurchaseKey
- B. round-robin
- C. replicated
- D. hash-distributed on DateKey

答案：A

解題說明:

Explanation

Hash-distributed tables improve query performance on large fact tables, and are the focus of this article.

Round-robin tables are useful for improving loading speed.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribu>

問題 #350

You have an Azure event hub named retailhub that has 16 partitions. Transactions are posted to retailhub.

Each transaction includes the transaction ID, the individual line items, and the payment details. The transaction ID is used as the partition key.

You are designing an Azure Stream Analytics job to identify potentially fraudulent transactions at a retail store. The job will use retailhub as the input. The job will output the transaction ID, the individual line items, the payment details, a fraud score, and a fraud indicator.

You plan to send the output to an Azure event hub named fraudhub.

You need to ensure that the fraud detection solution is highly scalable and processes transactions as quickly as possible.

How should you structure the output of the Stream Analytics job? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

答案:

解題說明:

Explanation

Box 1: 16

For Event Hubs you need to set the partition key explicitly.

An embarrassingly parallel job is the most scalable scenario in Azure Stream Analytics. It connects one partition of the input to one instance of the query to one partition of the output.

Box 2: Transaction ID

Reference:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-features#partitions>

問題 #351

You are designing an inventory updates table in an Azure Synapse Analytics dedicated SQL pool. The table will have a clustered columnstore index and will include the following columns:

You identify the following usage patterns:

* Analysts will most commonly analyze transactions for a warehouse.

* Queries will summarize by product category type, date, and/or inventory event type.

You need to recommend a partition strategy for the table to minimize query times.

On which column should you partition the table?

- A. WarehouseID
- B. EventTypeID
- C. EventDate
- D. ProductCategoryTypeID

答案: A

解題說明:

Explanation

The number of records for each warehouse is big enough for a good partitioning.

Note: Table partitions enable you to divide your data into smaller groups of data. In most cases, table partitions are created on a date column.

When creating partitions on clustered columnstore tables, it is important to consider how many rows belong to each partition. For optimal compression and performance of clustered columnstore tables, a minimum of 1 million rows per distribution and partition is needed. Before partitions are created, dedicated SQL pool already divides each table into 60 distributed databases.

問題 #352

You are developing a solution using a Lambda architecture on Microsoft Azure.

The data at test layer must meet the following requirements:

Data storage:

- *Serve as a repository (or high volumes of large files in various formats).
- *Implement optimized storage for big data analytics workloads.
- *Ensure that data can be organized using a hierarchical structure.

Batch processing:

- *Use a managed solution for in-memory computation processing.
- *Natively support Scala, Python, and R programming languages.
- *Provide the ability to resize and terminate the cluster automatically.

Analytical data store:

- *Support parallel processing.
- *Use columnar storage.
- *Support SQL-based languages.

You need to identify the correct technologies to build the Lambda architecture.

Which technologies should you use? To answer, select the appropriate options in the answer area NOTE: Each correct selection is worth one point.

答案:

解題說明:

Explanation:

Data storage: Azure Data Lake Store

A key mechanism that allows Azure Data Lake Storage Gen2 to provide file system performance at object storage scale and prices is the addition of a hierarchical namespace. This allows the collection of objects/files within an account to be organized into a hierarchy of directories and nested subdirectories in the same way that the file system on your computer is organized. With the hierarchical namespace enabled, a storage account becomes capable of providing the scalability and cost-effectiveness of object storage, with file system semantics that are familiar to analytics engines and frameworks.

Batch processing: HD Insight Spark

Apache Spark is an open-source, parallel-processing framework that supports in-memory processing to boost the performance of big-data analysis applications.

HDInsight is a managed Hadoop service. Use it to deploy and manage Hadoop clusters in Azure. For batch processing, you can use Spark, Hive, Hive LLAP, MapReduce.

Languages: R, Python, Java, Scala, SQL

Analytic data store: SQL Data Warehouse

SQL Data Warehouse is a cloud-based Enterprise Data Warehouse (EDW) that uses Massively Parallel Processing (MPP).

SQL Data Warehouse stores data into relational tables with columnar storage.

References:

<https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-namespace>

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

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-overview-what-is>

問題 #353

You plan to perform batch processing in Azure Databricks once daily.

Which type of Databricks cluster should you use?

- A. High Concurrency
- B. automated
- C. interactive

答案: C

解題說明:

Azure Databricks has two types of clusters: interactive and automated. You use interactive clusters to analyze data collaboratively with interactive notebooks. You use automated clusters to run fast and robust automated jobs.

Example: Scheduled batch workloads (data engineers running ETL jobs)

This scenario involves running batch job JARs and notebooks on a regular cadence through the Databricks platform.

The suggested best practice is to launch a new cluster for each run of critical jobs. This helps avoid any issues (failures, missing SLA, and so on) due to an existing workload (noisy neighbor) on a shared cluster.

Reference:

<https://docs.databricks.com/administration-guide/cloud-configurations/aws/cmbp.html#scenario-3-scheduled-batch-workloads-data-engineers-running-etl-jobs>

問題 #354

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