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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q210-Q215):

NEW QUESTION # 210

A data engineer is using Amazon QuickSight to build a dashboard to report a company's revenue in multiple AWS Regions. The data engineer wants the dashboard to display the total revenue for a Region, regardless of the drill-down levels shown in the visual. Which solution will meet these requirements?

- A. Create a table calculation.
- **B. Create a level-aware calculation - aggregate (LAC-A) function.**
- C. Create a simple calculated field.
- D. Create a level-aware calculation - window (LAC-W) function.

Answer: B

Explanation:

Option C (LAC-A) is the correct choice because the requirement is to always show the Region-level total even when the visual is drilled down into lower levels (for example, country # city # store). A simple calculated field (Option B) is computed at the row level and then aggregated by the visual, so it will change as the drill-down changes the grain. A table calculation (Option A) is evaluated based on the current visual layout and can vary with the fields placed in the visual, which makes it unreliable for enforcing a fixed "Region total regardless of drill-down."

A level-aware calculation (aggregate) is specifically intended to "lock" an aggregation to a chosen dimensional level (here: Region). That means you can compute revenue aggregated at the Region level and reuse that value across lower drill levels without it recalculating at city/store granularity. A window LAC (LAC-W) is primarily for windowed analytics (running totals, period-over-period, rank, moving averages) over a partition/order, not for enforcing a fixed dimensional aggregation level. Therefore, LAC-A best matches the requirement.

NEW QUESTION # 211

A data engineer maintains a materialized view that is based on an Amazon Redshift database. The view has a column named `load_date` that stores the date when each row was loaded.

The data engineer needs to reclaim database storage space by deleting all the rows from the materialized view.

Which command will reclaim the MOST database storage space?

- A. Option D
- B. Option B
- **C. Option A**
- D. Option C

Answer: C

Explanation:

To reclaim the most storage space from a materialized view in Amazon Redshift, you should use a DELETE operation that removes all rows from the view. The most efficient way to remove all rows is to use a condition that always evaluates to true, such as `1=1`.

This will delete all rows without needing to evaluate each row individually based on specific column values like `load_date`.

Option A: `DELETE FROM materialized_view_name WHERE 1=1;`

This statement will delete all rows in the materialized view and free up the space. Since materialized views in Redshift store precomputed data, performing a DELETE operation will remove all stored rows.

Other options either involve inappropriate SQL statements (e.g., VACUUM in option C is used for reclaiming storage space in tables, not materialized views), or they don't remove data effectively in the context of a materialized view (e.g., TRUNCATE cannot be used directly on a materialized view).

Reference:

NEW QUESTION # 212

A company wants to analyze sales records that the company stores in a MySQL database. The company wants to correlate the records with sales opportunities identified by Salesforce.

The company receives 2 GB of sales records every day. The company has 100 GB of identified sales opportunities. A data engineer needs to develop a process that will analyze and correlate sales records and sales opportunities. The process must run once each night.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Use Amazon AppFlow to fetch sales opportunities from Salesforce. Use Amazon Kinesis Data Streams to fetch sales records from the MySQL database. Use Amazon Managed Service for Apache Flink to correlate the datasets. Use AWS Step Functions to orchestrate the process.
- **B. Use Amazon AppFlow to fetch sales opportunities from Salesforce. Use AWS Glue to fetch sales records from the MySQL database. Correlate the sales records with sales opportunities. Use AWS Step Functions to orchestrate the process.**
- C. Use Amazon Managed Workflows for Apache Airflow (Amazon MWAA) to fetch both datasets. Use AWS Lambda functions to correlate the datasets. Use AWS Step Functions to orchestrate the process.
- D. Use Amazon AppFlow to fetch sales opportunities from Salesforce. Use AWS Glue to fetch sales records from the MySQL database. Correlate the sales records with the sales opportunities. Use Amazon Managed Workflows for Apache Airflow (Amazon MWAA) to orchestrate the process.

Answer: B

Explanation:

* Problem Analysis:

* The company processes 2 GB of daily sales records and 100 GB of Salesforce sales opportunities

.

* The goal is to analyze and correlate the two datasets with low operational overhead.

* The process must run once nightly.

* Key Considerations:

* Amazon AppFlow simplifies data integration with Salesforce.

* AWS Glue can extract data from MySQL and perform ETL operations.

* Step Functions can orchestrate workflows with minimal manual intervention.

* Apache Airflow and Flink add complexity, which conflicts with the requirement for low operational overhead.

* Solution Analysis:

* Option A: MWAA + Lambda + Step Functions

* Requires custom Lambda code for dataset correlation, increasing development and operational complexity.

* Option B: AppFlow + Glue + MWAA

* MWAA adds orchestration overhead compared to the simpler Step Functions.

* Option C: AppFlow + Glue + Step Functions

* AppFlow fetches Salesforce data, Glue extracts MySQL data, and Step Functions orchestrate the entire process.

* Minimal setup and operational overhead, making it the best choice.

* Option D: AppFlow + Kinesis + Flink + Step Functions

* Using Kinesis and Flink for batch processing introduces unnecessary complexity.

* Final Recommendation:

* Use Amazon AppFlow to fetch Salesforce data, AWS Glue to process MySQL data, and Step Functions for orchestration.

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[Amazon AppFlow Overview](#)

[AWS Glue ETL Documentation](#)

[AWS Step Functions](#)

NEW QUESTION # 213

A data engineer needs to create a new empty table in Amazon Athena that has the same schema as an existing table named old-table.

Which SQL statement should the data engineer use to meet this requirement?

- A. □

- B.
- C.
- D.

Answer: C

Explanation:

Problem Analysis:

The goal is to create a new empty table in Athena with the same schema as an existing table (old_table).

The solution must avoid copying any data.

Key Considerations:

CREATE TABLE AS (CTAS) is commonly used in Athena for creating new tables based on an existing table.

Adding the WITH NO DATA clause ensures only the schema is copied, without transferring any data.

Solution Analysis:

Option A: Copies both schema and data. Does not meet the requirement for an empty table.

Option B: Inserts data into an existing table, which does not create a new table.

Option C: Creates an empty table but does not copy the schema.

Option D: Creates a new table with the same schema and ensures it is empty by using WITH NO DATA.

Final Recommendation:

Use D. CREATE TABLE new_table AS (SELECT * FROM old_table) WITH NO DATA to create an empty table with the same schema.

Athena CTAS Queries

CREATE TABLE Statement in Athena

NEW QUESTION # 214

A data engineer is building an automated extract, transform, and load (ETL) ingestion pipeline by using AWS Glue. The pipeline ingests compressed files that are in an Amazon S3 bucket. The ingestion pipeline must support incremental data processing.

Which AWS Glue feature should the data engineer use to meet this requirement?

- A. Workflows
- B. Classifiers
- C. Triggers
- D. Job bookmarks

Answer: D

Explanation:

* Problem Analysis:

* The pipeline processes compressed files in S3 and must support incremental data processing.

* AWS Glue features must facilitate tracking progress to avoid reprocessing the same data.

* Key Considerations:

* Incremental data processing requires tracking which files or partitions have already been processed.

* The solution must be automated and efficient for large-scale ETL jobs.

* Solution Analysis:

* Option A: Workflows

* Workflows organize and orchestrate multiple Glue jobs but do not track progress for incremental data processing.

* Option B: Triggers

* Triggers initiate Glue jobs based on a schedule or events but do not track which data has been processed.

* Option C: Job Bookmarks

* Job bookmarks track the state of the data that has been processed, enabling incremental processing.

* Automatically skip files or partitions that were previously processed in Glue jobs.

* Option D: Classifiers

* Classifiers determine the schema of incoming data but do not handle incremental processing.

* Final Recommendation:

* Job bookmarks are specifically designed to enable incremental data processing in AWS Glue ETL pipelines.

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AWS Glue Job Bookmarks Documentation

AWS Glue ETL Features

NEW QUESTION # 215

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