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Databricks Certified Data Engineer Associate Exam Sample Questions (Q25-Q30):

NEW QUESTION # 25
A data engineer needs to apply custom logic to identify employees with more than 5 years of experience in array column employees in table stores. The custom logic should create a new column exp_employees that is an array of all of the employees with more than 5 years of experience for each row. In order to apply this custom logic at scale, the data engineer wants to use the FILTER higher-order function.
Which of the following code blocks successfully completes this task?

```
        SELECT
            store_id,
   A.       employees,
            FILTER (employees, i -> i.years_exp > 5) AS exp_employees
        FROM stores;

        SELECT
            store_id,
   B.       employees,
            FILTER (exp_employees, years_exp > 5) AS exp_employees
        FROM stores;

        SELECT
            store_id,
   C.       employees,
            FILTER (employees, years_exp > 5) AS exp_employees
        FROM stores;

        SELECT
            store_id,
            employees,
   D.       CASE WHEN employees.years_exp > 5 THEN employees
                ELSE NULL
            END AS exp_employees
        FROM stores;

        SELECT
            store_id,
   E.       employees,
            FILTER (exp_employees, i -> i.years_exp > 5) AS exp_employees
        FROM stores;
```

- A. Option C
- B. Option A
- C. Option D
- D. Option E
- E. Option B

Answer: B

Explanation:
Option A is the correct answer because it uses the FILTER higher-order function correctly to filter out employees with more than 5 years of experience from the array column "employees". It applies a lambda function i -> i.years_exp > 5 that checks if the years of experience of each employee in the array is greater than 5. If this condition is met, the employee is included in the new array column "exp_employees".
The use of higher-order functions like FILTER can be referenced from Databricks documentation on Higher- Order Functions.

NEW QUESTION # 26
A data engineer has joined an existing project and they see the following query in the project repository:
CREATE STREAMING LIVE TABLE loyal_customers AS
SELECT customer_id -
FROM STREAM(LIVE.customers)

WHERE loyalty_level = 'high';
Which of the following describes why the STREAM function is included in the query?

- A. The STREAM function is not needed and will cause an error.
- B. The customers table is a streaming live table.
- C. The table being created is a live table.
- D. The customers table is a reference to a Structured Streaming query on a PySpark DataFrame.
- E. The data in the customers table has been updated since its last run.

Answer: B

Explanation:
The STREAM function is used to process data from a streaming live table or view, which is a table or view that contains data that has been added only since the last pipeline update. Streaming live tables and views are stateful, meaning that they retain the state of the previous pipeline run and only process new data based on the current query. This is useful for incremental processing of streaming or batch data sources. The customers table in the query is a streaming live table, which means that it contains the latest data from the source. The STREAM function enables the query to read the data from the customers table incrementally and create another streaming live table named loyal_customers, which contains the customer IDs of the customers with high loyalty level. Reference: Difference between LIVE TABLE and STREAMING LIVE TABLE, CREATE STREAMING TABLE, Load data using streaming tables in Databricks SQL.

NEW QUESTION # 27

A data engineering team has two tables. The first table march_transactions is a collection of all retail transactions in the month of March. The second table april_transactions is a collection of all retail transactions in the month of April. There are no duplicate records between the tables.
Which of the following commands should be run to create a new table all_transactions that contains all records from march_transactions and april_transactions without duplicate records?

- A. CREATE TABLE all_transactions AS
  SELECT * FROM march_transactions
  INTERSECT SELECT * from april_transactions;
- B. CREATE TABLE all_transactions AS
  SELECT * FROM march_transactions
  OUTER JOIN SELECT * FROM april_transactions;
- C. CREATE TABLE all_transactions AS
  SELECT * FROM march_transactions
  MERGE SELECT * FROM april_transactions;
- D. CREATE TABLE all_transactions AS
  SELECT * FROM march_transactions
  UNION SELECT * FROM april_transactions;
- E. CREATE TABLE all_transactions AS
  SELECT * FROM march_transactions
  INNER JOIN SELECT * FROM april_transactions;

Answer: D

Explanation:
The correct command to create a new table that contains all records from two tables without duplicate records is to use the UNION operator. The UNION operator combines the results of two queries and removes any duplicate rows. The INNER JOIN, OUTER JOIN, and MERGE operators do not remove duplicate rows, and the INTERSECT operator only returns the rows that are common to both tables. Therefore, option B is the only correct answer. References: Databricks SQL Reference - UNION, Databricks SQL Reference - JOIN, Databricks SQL Reference - MERGE, [Databricks SQL Reference - INTERSECT]

NEW QUESTION # 28

A data engineer needs to use a Delta table as part of a data pipeline, but they do not know if they have the appropriate permissions.
In which of the following locations can the data engineer review their permissions on the table?

- A. Jobs
- B. Databricks Filesystem

- C. Repos
- D. Data Explorer
- E. Dashboards

Answer: D

Explanation:
Data Explorer is a graphical interface that allows you to browse, create, and manage data objects such as databases, tables, and views in your workspace. You can also review and modify the permissions on these data objects using Data Explorer. To access Data Explorer, you can click on the Data icon in the sidebar, or use the %sql magic command in a notebook. You can then select a database and a table, and click on the Permissions tab to view and edit the access control lists (ACLs) for the table. You can also use SQL commands such as SHOW GRANT and GRANT to query and modify the permissions on a Delta table. Reference:
Data Explorer
Access control for Delta tables
SHOW GRANT
[GRANT]

NEW QUESTION # 29
A data engineer has developed a data pipeline to ingest data from a JSON source using Auto Loader, but the engineer has not provided any type inference or schema hints in their pipeline. Upon reviewing the data, the data engineer has noticed that all of the columns in the target table are of the string type despite some of the fields only including float or boolean values.
Which of the following describes why Auto Loader inferred all of the columns to be of the string type?

- A. JSON data is a text-based format
- B. Auto Loader cannot infer the schema of ingested data
- C. Auto Loader only works with string data
- D. There was a type mismatch between the specific schema and the inferred schema
- E. All of the fields had at least one null value

Answer: A

Explanation:
JSON data is a text-based format that represents data as a collection of name-value pairs. By default, when Auto Loader infers the schema of JSON data, it treats all columns as strings. This is because JSON data can have varying data types for the same column across different files or records, and Auto Loader does not attempt to reconcile these differences. For example, a column named "age" may have integer values in some files, but string values in others. To avoid data loss or errors, Auto Loader infers the column as a string type.
However, Auto Loader also provides an option to infer more precise column types based on the sample data.
This option is called cloudFiles.inferColumnTypes and it can be set to true or false. When set to true, Auto Loader tries to infer the exact data types of the columns, such as integers, floats, booleans, or nested structures.
When set to false, Auto Loader infers all columns as strings. The default value of this option is false. References: Configure schema inference and evolution in Auto Loader, Schema inference with auto loader (non-DLT and DLT), Using and Abusing Auto Loader's Inferred Schema, Explicit path to data or a defined schema required for Auto loader.

NEW QUESTION # 30
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