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Databricks Databricks-Certified-Data-Analyst-Associate Exam Syllabus Topics:

Topic	Details
Topic 1	Analytics applications: It describes key moments of statistical distributions, data enhancement, and the blending of data between two source applications. Moreover, the topic also explains last-mile ETL, a scenario in which data blending would be beneficial, key statistical measures, descriptive statistics, and discrete and continuous statistics.

Topic 2	SQL in the Lakehouse: It identifies a query that retrieves data from the database, the output of a SELECT query, a benefit of having ANSI SQL, access, and clean silver-level data. It also compares and contrasts MERGE INTO, INSERT TABLE, and COPY INTO. Lastly, this topic focuses on creating and applying UDFs in common scaling scenarios.
Topic 3	Data Visualization and Dashboarding: Sub-topics of this topic are about of describing how notifications are sent, how to configure and troubleshoot a basic alert, how to configure a refresh schedule, the pros and cons of sharing dashboards, how query parameters change the output, and how to change the colors of all of the visualizations. It also discusses customized data visualizations, visualization formatting, Query Based Dropdown List, and the method for sharing a dashboard.
Topic 4	- Databricks SQL: This topic discusses key and side audiences, users, Databricks SQL benefits, complementing a basic Databricks SQL query, schema browser, Databricks SQL dashboards, and the purpose of Databricks SQL endpoints - warehouses. Furthermore, the delves into Serverless Databricks SQL endpoint - warehouses, trade-off between cluster size and cost for Databricks SQL endpoints - warehouses, and Partner Connect. Lastly it discusses small-file upload, connecting Databricks SQL to visualization tools, the medallion architecture, the gold layer, and the benefits of working with streaming data.
Topic 5	Data Management: The topic describes Delta Lake as a tool for managing data files, Delta Lake manages table metadata, benefits of Delta Lake within the Lakehouse, tables on Databricks, a table owner's responsibilities, and the persistence of data. It also identifies management of a table, usage of Data Explorer by a table owner, and organization-specific considerations of PII data. Lastly, the topic it explains how the LOCATION keyword changes, usage of Data Explorer to secure data.

Databricks Certified Data Analyst Associate Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18

A business analyst has been asked to create a data entity/object called sales_by_employee. It should always stay up-to-date when new data are added to the sales table. The new entity should have the columns sales_person, which will be the name of the employee from the employees table, and sales, which will be all sales for that particular sales person. Both the sales table and the employees table have an employee_id column that is used to identify the sales person.

Which of the following code blocks will accomplish this task?

- A.

```
SELECT employees.employee_name sales_person,
       sales.sales
FROM sales
JOIN employees
ON employees.employee_id = sales.employee_id USING
CREATE OR REPLACE VIEW sales_by_employee;
databricks
```

- B.

```
CREATE OR REPLACE VIEW sales_by_employee AS
SELECT employees.employee_name sales_person,
       sales.sales FROM sales
JOIN employees
ON employees.employee_id = sales.employee_id;
```

```
CREATE OR REPLACE VIEW sales_by_employee USING
SELECT employees.employee_name sales_person,
       sales.sales
FROM sales
JOIN employees
ON employees.employee_id = sales.employee_id;
```

- C.
- D.

```
CREATE TEMPORARY TABLE sales_by_employee AS
SELECT employees.employee_name sales_person,
       sales.sales
FROM sales
JOIN employees
ON employees.employee_id = sales.employee_id;
```

Answer: B

Explanation:

The SQL code provided in Option D is the correct way to create a view named sales_by_employee that will always stay up-to-date with the sales and employees tables. The code uses the CREATE OR REPLACE VIEW statement to define a new view that joins the sales and employees tables on the employee_id column. It selects the employee_name as sales_person and all sales for each employee, ensuring that the data entity/object is always up-to-date when new data are added to these tables.

NEW QUESTION # 19

A data analyst runs the following command:

```
SELECT age, country
```

```
FROM my_table
```

```
WHERE age >= 75 AND country = 'canada';
```

Which of the following tables represents the output of the above command?

age	country
80	canada
NULL	canada
90	NULL

- A.

age	country
80	canada
75	canada
90	canada

- B.

age	country
80	NULL
75	NULL
90	NULL

- C.

id	age	country
900	80	canada
901	75	canada
902	90	canada

• D.

age	country
80	canada
14	canada
90	canada

• E.

Answer: B

Explanation:

The SQL query provided is designed to filter out records from "my_table" where the age is 75 or above and the country is Canada. Since I can't view the content of the links provided directly, I need to rely on the image attached to this question for context. Based on that, Option E (the image attached) represents a table with columns "age" and "country", showing records where age is 75 or above and country is Canada. Reference: The answer can be inferred from understanding SQL queries and their outputs as per Databricks documentation: Databricks SQL

NEW QUESTION # 20

A data analyst has been asked to count the number of customers in each region and has written the following query:

```
SELECT region, count(*) AS number_of_customers
FROM customers
ORDER BY region;
```

If there is a mistake in the query, which of the following describes the mistake?

- A. The query is using ORDER BY, which is not allowed in an aggregation.
- **B. The query is missing a GROUP BY region clause.**
- C. The query is selecting region but region should only occur in the ORDER BY clause.
- D. There are no mistakes in the query.
- E. The query is using count(). which will count all the customers in the customers table, no matter the region.

Answer: B

Explanation:

In the provided SQL query, the data analyst is trying to count the number of customers in each region. However, they made a mistake by not including the "GROUP BY" clause to group the results by region. Without this clause, the query will not return counts for each distinct region but rather an error or incorrect result. Reference: The need for a GROUP BY clause in such queries can be understood from Databricks SQL documentation: Databricks SQL.

I also noticed that you uploaded an image with your question. The image shows a snippet of an SQL query written in plain text on a white background. The query is attempting to select regions and count customers from a "customers" table and order the results by region. There's no visible syntax highlighting or any other color - it's monochromatic. The query is the same as the one in your question. I'm not sure why you included the image, but maybe you wanted to show me the exact format of your query. If so, you can also use code blocks to display formatted content such as SQL queries. For example, you can write:

```
SELECT region, count(*) AS number_of_customers
FROM customers
ORDER BY region;
```

This way, you can avoid uploading images and make your questions more clear and concise. I hope this helps.

NEW QUESTION # 21

A data engineering team has created a Structured Streaming pipeline that processes data in micro-batches and populates gold-level tables. The microbatches are triggered every minute.

A data analyst has created a dashboard based on this gold-level dat

a. The project stakeholders want to see the results in the dashboard updated within one minute or less of new data becoming available within the gold-level tables.

Which of the following cautions should the data analyst share prior to setting up the dashboard to complete this task?

- A. The streaming cluster is not fault tolerant
- **B. The required compute resources could be costly**
- C. The gold-level tables are not appropriately clean for business reporting
- D. The streaming data is not an appropriate data source for a dashboard
- E. The dashboard cannot be refreshed that quickly

Answer: B

Explanation:

A Structured Streaming pipeline that processes data in micro-batches and populates gold-level tables every minute requires a high level of compute resources to handle the frequent data ingestion, processing, and writing. This could result in a significant cost for the organization, especially if the data volume and velocity are large. Therefore, the data analyst should share this caution with the project stakeholders before setting up the dashboard and evaluate the trade-offs between the desired refresh rate and the available budget. The other options are not valid cautions because:

B . The gold-level tables are assumed to be appropriately clean for business reporting, as they are the final output of the data engineering pipeline. If the data quality is not satisfactory, the issue should be addressed at the source or silver level, not at the gold level.

C . The streaming data is an appropriate data source for a dashboard, as it can provide near real-time insights and analytics for the business users. Structured Streaming supports various sources and sinks for streaming data, including Delta Lake, which can enable both batch and streaming queries on the same data.

D . The streaming cluster is fault tolerant, as Structured Streaming provides end-to-end exactly-once fault-tolerance guarantees through checkpointing and write-ahead logs. If a query fails, it can be restarted from the last checkpoint and resume processing.

E . The dashboard can be refreshed within one minute or less of new data becoming available in the gold-level tables, as Structured Streaming can trigger micro-batches as fast as possible (every few seconds) and update the results incrementally. However, this may not be necessary or optimal for the business use case, as it could cause frequent changes in the dashboard and consume more resources. Reference: Streaming on Databricks, Monitoring Structured Streaming queries on Databricks, A look at the new Structured Streaming UI in Apache Spark 3.0, Run your first Structured Streaming workload

NEW QUESTION # 22

A data organization has a team of engineers developing data pipelines following the medallion architecture using Delta Live Tables. While the data analysis team working on a project is using gold-layer tables from these pipelines, they need to perform some additional processing of these tables prior to performing their analysis.

Which of the following terms is used to describe this type of work?

- A. Data enhancement
- B. Data blending
- C. Data testing
- **D. Last-mile ETL**
- E. Last-mile

Answer: D

Explanation:

Last-mile ETL is the term used to describe the additional processing of data that is done by data analysts or data scientists after the data has been ingested, transformed, and stored in the lakehouse by data engineers. Last-mile ETL typically involves tasks such as data cleansing, data enrichment, data aggregation, data filtering, or data sampling that are specific to the analysis or machine learning use case. Last-mile ETL can be done using Databricks SQL, Databricks notebooks, or Databricks Machine Learning. Reference: Databricks - Last-mile ETL, Databricks - Data Analysis with Databricks SQL

NEW QUESTION # 23

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