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## Databricks Certified Data Engineer Associate Study Guide

In-Depth Guidance and Practice



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

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• 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</li> <li>• warehouses. Furthermore, the delves into Serverless Databricks SQL endpoint</li> <li>• warehouses, trade-off between cluster size and cost for Databricks SQL endpoints</li> <li>• 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

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## Databricks's Exam Questions for Databricks-Certified-Data-Analyst-Associate Help You Achieve Success in Your First Attempt

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## Databricks Certified Data Analyst Associate Exam Sample Questions (Q44-Q49):

### NEW QUESTION # 44

A data analyst has been asked to use the below table sales\_table to get the percentage rank of products within region by the sales:

□ The result of the query should look like this:

□ Which of the following queries will accomplish this task?

A)

B)

C)

□

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

**Answer: A**

Explanation:

The correct query to get the percentage rank of products within region by the sales is option B. This query uses the

PERCENT\_RANK() window function to calculate the relative rank of each product within each region based on the sales amount. The window function is partitioned by region and ordered by sales in descending order. The result is aliased as rank and displayed along with the region and product columns. The other options are incorrect because:

A) Option A uses the RANK() window function instead of the PERCENT\_RANK() function. The RANK() function returns the rank of each row within the partition, but not the percentage rank. Also, the query does not have a GROUP BY clause, which is required for aggregate functions like SUM().

C) Option C uses the DENSE\_RANK() window function instead of the PERCENT\_RANK() function. The DENSE\_RANK() function returns the rank of each row within the partition, but not the percentage rank. Also, the query does not have a GROUP BY clause, which is required for aggregate functions like SUM().

D) Option D uses the ROW\_NUMBER() window function instead of the PERCENT\_RANK() function. The ROW\_NUMBER() function returns the sequential number of each row within the partition, but not the percentage rank. Also, the query does not have a GROUP BY clause, which is required for aggregate functions like SUM(). Reference:

1: PERCENT\_RANK (Transact-SQL)

2: Window functions in Databricks SQL

3: Databricks Certified Data Analyst Associate Exam Guide

### NEW QUESTION # 45

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. ☐
- B. ☐
- C. ☒
- D. ☐

**Answer: C**

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 # 46

The stakeholders.customers table has 15 columns and 3,000 rows of data.

a. The following command is run:

After running SELECT \* FROM stakeholders.eur\_customers, 15 rows are returned. After the command executes completely, the user logs out of Databricks.

After logging back in two days later, what is the status of the stakeholders.eur\_customers view?

- A. The view remains available and SELECT \* FROM stakeholders.eur\_customers will execute correctly.
- B. The view has been dropped.
- C. The view has been converted into a table.
- D. The view remains available but attempting to SELECT from it results in an empty result set because data in views are automatically deleted after logging out.
- E. The view is not available in the metastore, but the underlying data can be accessed with SELECT \* FROM delta.`stakeholders.eur\_customers`.

**Answer: A**

Explanation:

In Databricks, a view is a saved SQL query definition that references existing tables or other views. Once created, a view remains persisted in the metastore (such as Unity Catalog or Hive Metastore) until it is explicitly dropped.

Key points:

Views do not store data themselves but reference data from underlying tables.

Logging out or being inactive does not delete or alter views.

Unless a user or admin explicitly drops the view or the underlying data/table is deleted, the view continues to function as expected. Therefore, after logging back in-even days later-a user can still run `SELECT * FROM stakeholders.eur_customers`, and it will return the same data (provided the underlying table hasn't changed).

#### NEW QUESTION # 47

Which of the following statements about a refresh schedule is incorrect?

- A. A query can be refreshed anywhere from 1 minute to 2 weeks
- B. Refresh schedules can be configured in the Query Editor.
- **C. A query being refreshed on a schedule does not use a SQL Warehouse (formerly known as SQL Endpoint).**
- D. A refresh schedule is not the same as an alert.
- E. You must have workspace administrator privileges to configure a refresh schedule

**Answer: C**

Explanation:

Refresh schedules are used to rerun queries at specified intervals, and these queries typically require computational resources to execute. In the context of a cloud data service like Databricks, this would typically involve the use of a SQL Warehouse (or a SQL Endpoint, as they were formerly known) to provide the necessary computational resources. Therefore, the statement is incorrect because scheduled query refreshes would indeed use a SQL Warehouse/Endpoint to execute the query.

#### NEW QUESTION # 48

A data scientist has asked a data analyst to create histograms for every continuous variable in a data set. The data analyst needs to identify which columns are continuous in the data set.

What describes a continuous variable?

- A. A quantitative variable that can take on a finite or countably infinite set of values
- B. A categorical variable in which the number of categories continues to increase over time
- **C. A quantitative variable that can take on an uncountable set of values**
- D. A quantitative variable that never stops changing

**Answer: C**

Explanation:

A continuous variable is a type of quantitative variable that can assume an infinite number of values within a given range. This means that between any two possible values, there can be an infinite number of other values. For example, variables such as height, weight, and temperature are continuous because they can be measured to any level of precision, and there are no gaps between possible values. This is in contrast to discrete variables, which can only take on specific, distinct values (e.g., the number of children in a family). Understanding the nature of continuous variables is crucial for data analysts, especially when selecting appropriate statistical methods and visualizations, such as histograms, to accurately represent and analyze the data.

#### NEW QUESTION # 49

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