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The Databricks modern job market is becoming more and more competitive and challenging and if you are not ready for it then you cannot pursue a rewarding career. Take a smart move right now and enroll in the Databricks Certified Data Analyst Associate Exam (Databricks-Certified-Data-Analyst-Associate) certification exam and strive hard to pass the Databricks Certified Data Analyst Associate Exam (Databricks-Certified-Data-Analyst-Associate) certification exam.

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

Topic	Details
Topic 1	<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 2	<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 3	<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>
Topic 4	<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 5	<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>

## Databricks Certified Data Analyst Associate Exam Sample Questions (Q57-Q62):

### NEW QUESTION # 57

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 count(), which will count all the customers in the customers table, no matter the region.
- 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. The query is using ORDER BY, which is not allowed in an aggregation.
- E. There are no mistakes in the query.

**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 # 58

A data analyst has created a user-defined function using the following line of code:

```
CREATE FUNCTION price(spend DOUBLE, units DOUBLE)
```

```
RETURNS DOUBLE
```

```
RETURN spend / units;
```

Which of the following code blocks can be used to apply this function to the customer\_spend and customer\_units columns of the table customer\_summary to create column customer\_price?

- A. **SELECT price(customer\_spend, customer\_units) AS customer\_price FROM customer\_summary**
- B. SELECT double(price(customer\_spend, customer\_units)) AS customer\_price FROM customer\_summary
- C. SELECT PRICE customer\_spend, customer\_units AS customer\_price FROM customer\_summary
- D. SELECT function(price(customer\_spend, customer\_units)) AS customer\_price FROM customer\_summary
- E. SELECT price FROM customer\_summary

**Answer: A**

Explanation:

A user-defined function (UDF) is a function defined by a user, allowing custom logic to be reused in the user environment<sup>1</sup>. To apply a UDF to a table, the syntax is `SELECT udf_name(column_name) AS alias FROM table_name2`. Therefore, option E is the correct way to use the UDF price to create a new column customer\_price based on the existing columns customer\_spend and customer\_units from the table customer\_summary. Reference:

What are user-defined functions (UDFs)?

User-defined scalar functions - SQL

V

#### NEW QUESTION # 59

Which of the following statements describes descriptive statistics?

- A. A branch of statistics that uses summary statistics to categorically describe and summarize data.
- B. A branch of statistics that uses a variety of data analysis techniques to infer properties of an underlying distribution of probability.
- C. A branch of statistics that uses quantitative variables that must take on a finite or countably infinite set of values.
- D. A branch of statistics that uses quantitative variables that must take on an uncountable set of values.
- E. **A branch of statistics that uses summary statistics to quantitatively describe and summarize data.**

**Answer: E**

Explanation:

Descriptive statistics is a branch of statistics that uses summary statistics, such as mean, median, mode, standard deviation, range, frequency, or correlation, to quantitatively describe and summarize data. Descriptive statistics can help data analysts understand the main features of a data set, such as its central tendency, variability, or distribution. Descriptive statistics can also help data analysts visualize data using charts, graphs, or tables. Descriptive statistics do not make any inferences or predictions about the data, unlike inferential statistics, which use data analysis techniques to infer properties of an underlying population or probability distribution from a sample of data. Reference: Databricks - Descriptive Statistics, Databricks - Data Analysis with Databricks SQL

#### NEW QUESTION # 60

Which of the following benefits of using Databricks SQL is provided by Data Explorer?

- A. **It can be used to view metadata and data, as well as view/change permissions.**
- B. It can be used to produce dashboards that allow data exploration.
- C. It can be used to connect to third party BI tools.
- D. It can be used to make visualizations that can be shared with stakeholders.
- E. It can be used to run UPDATE queries to update any tables in a database.

**Answer: A**

Explanation:

Data Explorer is a user interface that allows you to discover and manage data, schemas, tables, models, and permissions in Databricks SQL. You can use Data Explorer to view schema details, preview sample data, and see table and model details and properties. Administrators can view and change owners, and admins and data object owners can grant and revoke permissions. Reference: Discover and manage data using Data Explorer

### NEW QUESTION # 61

A data analyst creates a Databricks SQL Query where the result set has the following schema:

region STRING

number\_of\_customer INT

When the analyst clicks on the "Add visualization" button on the SQL Editor page, which of the following types of visualizations will be selected by default?

- A. Violin Chart
- B. Line Chart
- C. There is no default. The user must choose a visualization type.
- **D. IBar Chart**
- E. Histogram

**Answer: D**

Explanation:

According to the Databricks SQL documentation, when a data analyst clicks on the "Add visualization" button on the SQL Editor page, the default visualization type is Bar Chart. This is because the result set has two columns: one of type STRING and one of type INT. The Bar Chart visualization automatically assigns the STRING column to the X-axis and the INT column to the Y-axis. The Bar Chart visualization is suitable for showing the distribution of a numeric variable across different categories. Reference: Visualization in Databricks SQL, Visualization types

### NEW QUESTION # 62

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