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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>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 3	<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 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. Moroever, 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 Certified Data Analyst Associate Exam Sample Questions (Q63-Q68):**

#### **NEW QUESTION # 63**

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

**Answer: A**

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 # 64**

Query History provides Databricks SQL users with a lot of benefits. A data analyst has been asked to share all of these benefits with their team as part of a training exercise. One of the benefit statements the analyst provided to their team is incorrect.

Which statement about Query History is incorrect?

- A. It can be used to debug queries.
- B. **It can be used to automate query execution on multiple warehouses (formerly endpoints).**
- C. It can be used to view the query plan of queries that have run.
- D. It can be used to troubleshoot slow running queries.

**Answer: B**

Explanation:

Query History in Databricks SQL is intended for reviewing executed queries, understanding their execution plans, and identifying performance issues or errors for debugging purposes. It allows users to analyze query duration, resources used, and potential

bottlenecks. However, Query History does not provide any capability to automate the execution of queries across multiple warehouses; automation must be handled through jobs or external orchestration tools, not through the Query History feature itself.

#### NEW QUESTION # 65

A data analysis team is working with the table\_bronze SQL table as a source for one of its most complex projects. A stakeholder of the project notices that some of the downstream data is duplicative. The analysis team identifies table\_bronze as the source of the duplication.

Which of the following queries can be used to deduplicate the data from table\_bronze and write it to a new table table\_silver?

A)

```
CREATE TABLE table_silver AS
SELECT DISTINCT *
FROM table_bronze;
```

B)

```
CREATE TABLE table_silver AS
INSERT *
FROM table_bronze;
```

C)

```
CREATE TABLE table_silver AS
MERGE DEDUPLICATE *
FROM table_bronze;
```

D)

```
INSERT INTO TABLE table_silver
SELECT * FROM table_bronze;
```

E)

```
INSERT OVERWRITE TABLE table_silver
SELECT * FROM table_bronze;
```

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

#### Answer: B

Explanation:

Option A uses the SELECT DISTINCT statement to remove duplicate rows from the table\_bronze and create a new table table\_silver with the deduplicated data. This is the correct way to deduplicate data using Spark SQL12. Option B simply inserts all the rows from table\_bronze into table\_silver, without removing any duplicates. Option C is not a valid syntax for Spark SQL, as there is no MERGE DEDUPLICATE statement. Option D appends all the rows from table\_bronze into table\_silver, without removing any duplicates. Option E overwrites the existing data in table\_silver with the data from table\_bronze, without removing any duplicates. Reference: Delete Duplicate using SPARK SQL, Spark SQL - How to Remove Duplicate Rows

#### NEW QUESTION # 66

A data analyst needs to use the Databricks Lakehouse Platform to quickly create SQL queries and data visualizations. It is a requirement that the compute resources in the platform can be made serverless, and it is expected that data visualizations can be placed within a dashboard.

Which of the following Databricks Lakehouse Platform services/capabilities meets all of these requirements?

- A. Databricks Machine Learning
- B. Delta Lake
- C. Databricks Notebooks
- **D. Databricks SQL**
- E. Tableau

#### Answer: D

Explanation:

Databricks SQL is a serverless data warehouse on the Lakehouse that lets you run all of your SQL and BI applications at scale with

your tools of choice, all at a fraction of the cost of traditional cloud data warehouses<sup>1</sup>. Databricks SQL allows you to create SQL queries and data visualizations using the SQL Analytics UI or the Databricks SQL CLI<sup>2</sup>. You can also place your data visualizations within a dashboard and share it with other users in your organization<sup>3</sup>. Databricks SQL is powered by Delta Lake, which provides reliability, performance, and governance for your data lake<sup>4</sup>. Reference:

Databricks SQL

Query data using SQL Analytics

Visualizations in Databricks notebooks

Delta Lake

## NEW QUESTION # 67

A data analyst wants to create a dashboard with three main sections: Development, Testing, and Production. They want all three sections on the same dashboard, but they want to clearly designate the sections using text on the dashboard.

Which of the following tools can the data analyst use to designate the Development, Testing, and Production sections using text?

- A. Direct text written into the dashboard in editing mode
- B. Separate endpoints for each section
- C. Separate color palettes for each section
- D. Separate queries for each section
- E. **Markdown-based text boxes**

**Answer: E**

Explanation:

Markdown-based text boxes are useful as labels on a dashboard. They allow the data analyst to add text to a dashboard using the %md magic command in a notebook cell and then select the dashboard icon in the cell actions menu. The text can be formatted using markdown syntax and can include headings, lists, links, images, and more. The text boxes can be resized and moved around on the dashboard using the float layout option. Reference: Dashboards in notebooks, How to add text to a dashboard in Databricks

## NEW QUESTION # 68

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