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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. 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.
Topic 2	<ul> <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	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.

Topic 4	<ul> <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	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.

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### Databricks Certified Data Analyst Associate Exam Sample Questions (Q51-Q56):

#### **NEW QUESTION #51**

A data team has been given a series of projects by a consultant that need to be implemented in the Databricks Lakehouse Platform Which of the following projects should be completed in Databricks SQL?

- A. Combining two data sources into a single, comprehensive dataset
- B. Segmenting customers into like groups using a clustering algorithm
- C. Automating complex notebook-based workflows with multiple tasks
- D. Testing the quality of data as it is imported from a source
- E. Tracking usage of feature variables for machine learning projects

#### Answer: A

#### Explanation:

Databricks SQL is a service that allows users to query data in the lakehouse using SQL and create visualizations and dashboards1. One of the common use cases for Databricks SQL is to combine data from different sources and formats into a single, comprehensive dataset that can be used for further analysis or reporting2. For example, a data analyst can use Databricks SQL to join data from a CSV file and a Parquet file, or from a Delta table and a JDBC table, and create a new table or view that contains the combined data3. This can help simplify the data management and governance, as well as improve the data quality and consistency. Reference:

Databricks SQL overview Databricks SQL use cases Joining data sources

#### **NEW QUESTION #52**

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 using ORDER BY. which is not allowed in an aggregation.
- C. The query is missing a GROUP BY region clause.
- D. There are no mistakes in the query.
- E. The query is selecting region but region should only occur in the ORDER BY clause.

#### Answer: C

#### 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 #53**

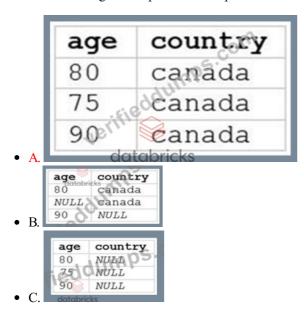
A data analyst runs the following command:

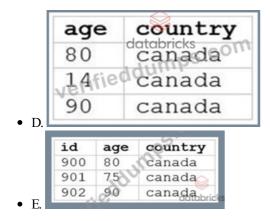
SELECT age, country

FROM my\_table

WHERE age  $\geq$  75 AND country = 'canada';

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





#### Answer: A

#### 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 #54**

The stakeholders customers table has 15 columns and 3,000 rows of data. The following command is run:

```
CREATE TEMP VIEW stakeholders.eur_customers AS
SELECT * FROM stakeholders.customers
WHERE continent = 'eur';
```

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 is not available in the metastore, but the underlying data can be accessed with SELECT \* FROM delta. `stakeholders.eur customers`.
- C. The view has been converted into a table.
- D. The view has been dropped.
- E. 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.

#### Answer: D

#### Explanation:

The command you sent creates a TEMP VIEW, which is a type of view that is only visible and accessible to the session that created it. When the session ends or the user logs out, the TEMP VIEW is automatically dropped and cannot be queried anymore. Therefore, after logging back in two days later, the status of the stakeholders.eur\_customers view is that it has been dropped and SELECT\* FROM stakeholders.eur\_customers will result in an error. The other options are not correct because:

- A) The view does not remain available, as it is a TEMP VIEW that is dropped when the session ends or the user logs out.
- C) The view is not available in the metastore, as it is a TEMP VIEW that is not registered in the metastore. The underlying data cannot be accessed with SELECT \* FROM delta. stakeholders.eur\_customers, as this is not a valid syntax for querying a Delta Lake table. The correct syntax would be SELECT \* FROM delta.dbfs:/stakeholders/eur\_customers, where the location path is enclosed in backticks. However, this would also result in an error, as the TEMP VIEW does not write any data to the file system and the location path does not exist.
- D) The view does not remain available, as it is a TEMP VIEW that is dropped when the session ends or the user logs out. Data in views are not automatically deleted after logging out, as views do not store any data. They are only logical representations of queries on base tables or other views.
- E) The view has not been converted into a table, as there is no automatic conversion between views and tables in Databricks. To create a table from a view, you need to use a CREATE TABLE AS statement or a similar command. Reference: CREATE VIEW |

Databricks on AWS, Solved: How do temp views actually work? - Databricks - 20136, temp tables in Databricks - Databricks - 44012, Temporary View in Databricks - BIG DATA PROGRAMMERS, Solved: What is the difference between a Temporary View an ...

#### **NEW QUESTION #55**

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

#### Answer: E

#### Explanation:

A user-defined function (UDF) is a function defined by a user, allowing custom logic to be reused in the user environment1. 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 #56**

.....

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