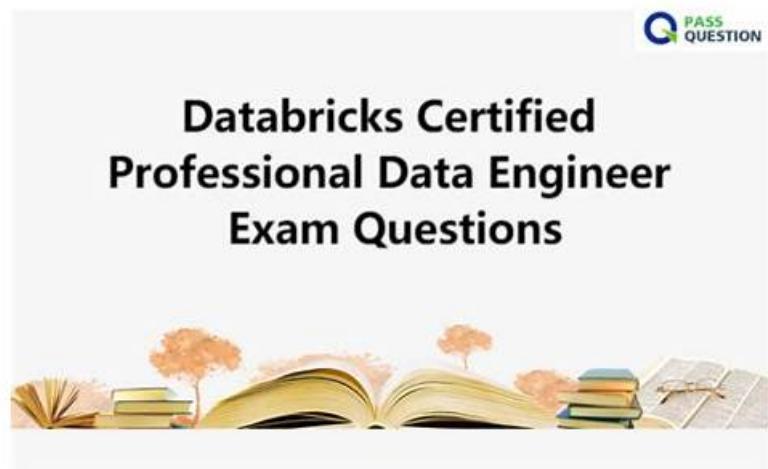# Get Excellent Scores in Exam with Databricks Databricks-Certified-Professional-Data-Engineer Questions

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Databricks Certified Professional Data Engineer Exam Sample Questions (Q160-Q165):

NEW QUESTION # 160
Which of the following is a Continuous Probability Distributions?

- A. Normal probability distribution
- B. Poisson probability distribution
- C. Binomial probability distribution
- D. Negative binomial distribution

Answer: A

NEW QUESTION # 161

The data science team has created and logged a production model using MLflow. The following code correctly imports and applies the production model to output the predictions as a new DataFrame named preds with the schema "customer_id LONG, predictions DOUBLE, date DATE".

```
from pyspark.sql.functions import current_date

model = mlflow.pyfunc.spark_udf(spark, model_uri="models:/churn/prod")
df = spark.table("customers")
columns = ["account_age", "time_since_last_seen", "app_rating"]
preds = (df.select(
  "customer_id",
  model(*columns).alias("predictions"),
  current_date().alias("date")
  )
)
```

The data science team would like predictions saved to a Delta Lake table with the ability to compare all predictions across time. Churn predictions will be made at most once per day.

Which code block accomplishes this task while minimizing potential compute costs?

- A. preds.write.format("delta").save("/preds/churn_preds")
- B. preds.write.mode("append").saveAsTable("churn_preds")
- C.
```
(preds.writeStream
  .outputMode("overwrite")
  .option("checkpointPath", "/_checkpoints/churn_preds")
  .start("/preds/churn_preds")
)
```
- D.
```
(preds.write
  .format("delta")
  .mode("overwrite")
  .saveAsTable("churn_preds")
)
```
- E.
```
(preds.writeStream
  .outputMode("append")
  .option("checkpointPath", "/_checkpoints/churn_preds")
  .table("churn_preds")
)
```

Answer: B

NEW QUESTION # 162

The data engineering team maintains the following code:

```
accountDF = spark.table("accounts")
orderDF = spark.table("orders")
itemDF = spark.table("items")

orderWithItemDF = (orderDF.join(
    itemDF,
    orderDF.itemID == itemDF.itemID)
  .select(
    orderDF.accountID,
    orderDF.itemID,

    itemDF.itemName))

finalDF = (accountDF.join(
    orderWithItemDF,
    accountDF.accountID == orderWithItemDF.accountID)
  .select(
    orderWithItemDF["*"],

    accountDF.city))

(finalDF.write
  .mode("overwrite")
  .table("enriched_itemized_orders_by_account"))
```

Assuming that this code produces logically correct results and the data in the source tables has been de-duplicated and validated, which statement describes what will occur when this code is executed?

- A. A batch job will update the enriched_itemized_orders_by_account table, replacing only those rows that have different values than the current version of the table, using accountID as the primary key.
- B. An incremental job will leverage information in the state store to identify unjoined rows in the source tables and write these rows to the enriched_iteinized_orders_by_account table.
- C. The enriched_itemized_orders_by_account table will be overwritten using the current valid version of data in each of the three tables referenced in the join logic.
- D. An incremental job will detect if new rows have been written to any of the source tables; if new rows are detected, all results will be recalculated and used to overwrite the enriched_itemized_orders_by_account table.
- E. No computation will occur until enriched_itemized_orders_by_account is queried; upon query materialization, results will be calculated using the current valid version of data in each of the three tables referenced in the join logic.

Answer: C

Explanation:
Cmd 1: min("sale_date").alias("first_transaction_date"): Determines the earliest sale date for the customer.
Cmd 2: max("sale_date").alias("last_transaction_date"): Determines the latest sale date for the customer.
Cmd 3: mean("sale_total").alias("average_sales"): Calculates the average sale amount for the customer.
Cmd 4: countDistinct("order_id").alias("total_orders"): Counts the number of unique orders placed by the customer.
Cmd 5: sum("sale_total").alias("lifetime_value"): Calculates the total sales amount (lifetime value) for the customer.
Writes Data to gold_customer_lifetime_sales_summary Table:
The .write.mode("overwrite").table("gold_customer_lifetime_sales_summary") command writes the aggregated data to the gold_customer_lifetime_sales_summary table.
The mode("overwrite") specifies that the existing data in the gold_customer_lifetime_sales_summary table will be completely replaced by the new aggregated data.

Conclusion:
When this code is executed, it reads all records from the silver_customer_sales table, performs the specified aggregations grouped by customer_id, and then overwrites the entire gold_customer_lifetime_sales_summary table with the aggregated results. Therefore, option D accurately describes this process: "The gold_customer_lifetime_sales_summary table will be overwritten by aggregated values calculated from all records in the silver_customer_sales table as a batch job." Explanation:
The provided PySpark code performs the following operations:
Reads Data from silver_customer_sales Table:
The code starts by accessing the silver_customer_sales table using the spark.table method.
Groups Data by customer_id:
The .groupBy("customer_id") function groups the data based on the customer_id column.
Aggregates Data:
The .agg() function computes several aggregate metrics for each customer_id:
Reference:
PySpark DataFrame groupBy
PySpark Basics

NEW QUESTION # 163
A data engineer has created a new cluster using shared access mode with default configurations. The data engineer needs to allow the development team access to view the driver logs if needed.
What are the minimal cluster permissions that allow the development team to accomplish this?

- A. CAN MANAGE
- B. CAN ATTACH TO
- C. CAN RESTART
- D. CAN VIEW

Answer: D

Explanation:
Databricks provides different permission levels to control access to clusters. The correct minimal permission required for viewing driver logs is CAN VIEW.
Databricks Cluster Permission Levels:
* CAN ATTACH TO:
* Allows users to attach notebooks to a cluster but does not allow them to view logs.
* Not sufficient for viewing driver logs.
* CAN MANAGE:
* Grants full control over the cluster, including starting, stopping, and editing configurations.
* Too broad for this requirement.
* CAN VIEW (Correct Answer):
* Allows users to view cluster details, logs, and status but not modify any configurations.
* Minimal required permission for viewing logs.
* CAN RESTART:
* Grants permission to restart the cluster, but does not include log access.
* Not sufficient for viewing logs.
Conclusion:
The minimal permission needed to allow the development team to view driver logs is CAN VIEW.
References:
Databricks Cluster Permissions Documentation

NEW QUESTION # 164
You noticed a colleague is manually copying the data to the backup folder prior to running an up-date command, incase if the update command did not provide the expected outcome so he can use the backup copy to replace table, which Delta Lake feature would you recommend simplifying the process?

- A. Use time travel feature to refer old data instead of manually copying
- B. Use SHADOW copy of the table as preferred backup choice
- C. Cloud object storage automatically backups the data
- D. Use DEEP CLONE to clone the table prior to update to make a backup copy

- E. Cloud object storage retains previous version of the file

Answer: A

Explanation:
Explanation
The answer is, Use time travel feature to refer old data instead of manually copying.
https://databricks.com/blog/2019/02/04/introducing-delta-time-travel-for-large-scale-data-lakes.html
1.SELECT count(*) FROM my_table TIMESTAMP AS OF "2019-01-01"
2.SELECT count(*) FROM my_table TIMESTAMP AS OF date_sub(current_date(), 1)
3.SELECT count(*) FROM my_table TIMESTAMP AS OF "2019-01-01 01:30:00.000"

NEW QUESTION # 165
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