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Databricks Certified Professional Data Engineer Exam Sample Questions (Q179-Q184):

NEW QUESTION # 179
You are still noticing slowness in query after performing optimize which helped you to resolve the small files problem, the column(transactionId) you are using to filter the data has high cardinality and auto incrementing number. Which delta optimization can you enable to filter data effectively based on this column?

- A. Create BLOOM FLTER index on the transactionId
- B. Increase the driver size and enable delta optimization
- C. transactionId has high cardinality, you cannot enable any optimization.
- D. Perform Optimize with Zorder on transactionId

- E. Increase the cluster size and enable delta optimization

Answer: D

Explanation:
Explanation
The answer is, perform Optimize with Z-order by transactionid
Here is a simple explanation of how Z-order works, once the data is naturally ordered, when a file is scanned it only brings the data it needs into spark's memory Based on the column min and max it knows which data files needs to be scanned.
Table Description automatically generated

Graphical user interface, diagram, application Description automatically generated
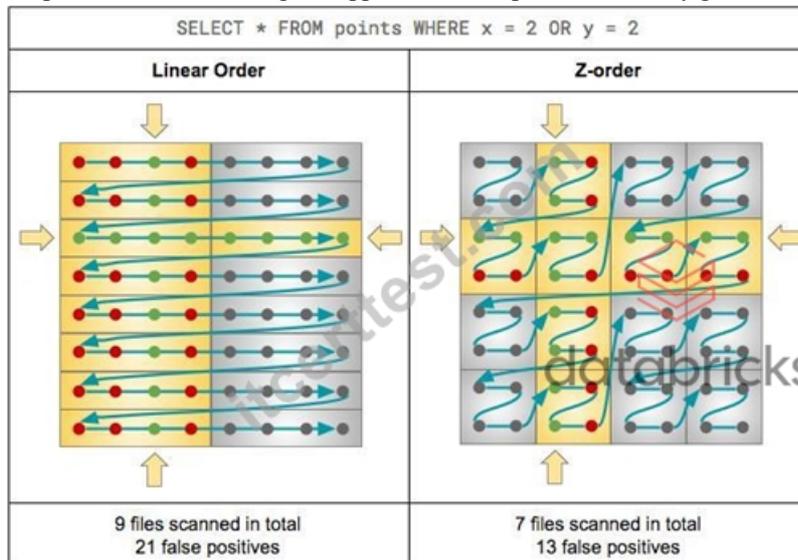
NEW QUESTION # 180
The data science team has created and logged a production model using MLflow. The following code correctly imports and applies the production model to output the predictions as a new DataFrame named preds with the schema "customer_id LONG, predictions DOUBLE, date DATE".

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.

- C.
- D. preds.write.mode("append").saveAsTable("churn_preds")

Answer: D

NEW QUESTION # 181

Which of the following Auto loader structured streaming commands successfully performs a hop from the landing area into Bronze?

- A. 1.spark\
   2..readStream\
   3..format("csv")\
   4..option("cloudFiles.schemaLocation", checkpoint_directory)\
   5..load("landing")\
   6..writeStream.option("checkpointLocation", checkpoint_directory)\
   7..table(raw)
- B. 1.spark\
   2..read\
   3..load(rawSalesLocation) \
   4..writeStream\
   5..option("checkpointLocation", checkpointPath) \
   6..outputMode("append")\
   7..table("uncleanedSales")
- C. 1.spark\
   2..readStream\
   3..format("cloudFiles")\
   4..option("cloudFiles.format","csv")\
   5..option("cloudFiles.schemaLocation", checkpoint_directory)\
   6..load("landing")\
   7..writeStream.option("checkpointLocation", checkpoint_directory)\
   8..table(raw)
   (Correct)
- D. 1.spark\
   2..readStream\
   3..load(rawSalesLocation)\
   4..writeStream \
   5..option("checkpointLocation", checkpointPath).outputMode("append")\
   6..table("uncleanedSales")
- E. 1.spark\
   2..read\
   3..format("cloudFiles")\
   4..option("cloudFiles.format","csv")\
   5..option("cloudFiles.schemaLocation", checkpoint_directory)\
   6..load("landing")\
   7..writeStream.option("checkpointLocation", checkpoint_directory)\

8..table(raw)

Answer: C

Explanation:
Explanation
The answer is
1.spark\
2..readStream\
3..format("cloudFiles") \# use Auto loader
4..option("cloudFiles.format","csv") \ # csv format files
5..option("cloudFiles.schemaLocation", checkpoint_directory)\
6..load('landing')\
7..writeStream.option("checkpointLocation", checkpoint_directory)\
8..table(raw)
Note: if you chose the below option which is incorrect because it does not have readStream
1.spark.read.format("cloudFiles")
2..option("cloudFiles.format","csv")
3....
4...
5...
Exam focus: Please review the below image and understand the role of each layer(bronze, silver, gold) in medallion architecture, you will see varying questions targeting each layer and its purpose.
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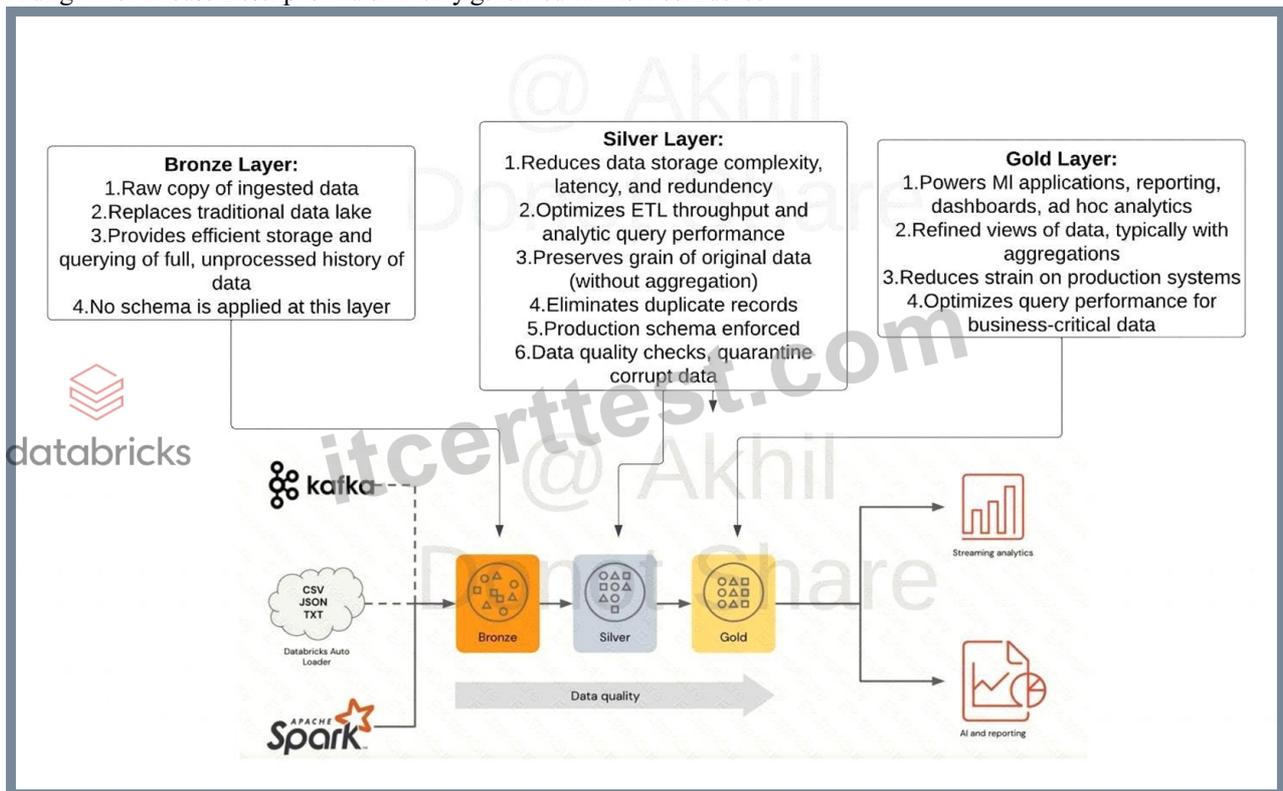
NEW QUESTION # 182
A nightly job ingests data into a Delta Lake table using the following code:

```
from pyspark.sql.functions import current_timestamp, input_file_name, col
from pyspark.sql.column import Column

def ingest_daily_batch(time_col: Column, year: int, month: int, day: int):
    (spark.read
        .format("parquet")
        .load(f"/mnt/daily_batch/{year}/{month}/{day}")
        .select("*",
                time_col.alias("ingest_time"),
                input_file_name().alias("source_file")
        )
        .write
        .mode("append")
        .saveAsTable("bronze")
    )
```

The next step in the pipeline requires a function that returns an object that can be used to manipulate new records that have not yet been processed to the next table in the pipeline.

Which code snippet completes this function definition?

def new_records():

- A. return spark.readStream.load("bronze")
- B. return spark.read.option("readChangeFeed", "true").table ("bronze")
- C.

```
return (spark.read
    .table("bronze")
    .filter(col("source_file") == f"/mnt/daily_batch/{year}/{month}/{day}")
)
```

- D. return spark.readStream.table("bronze")

Answer: C

Explanation:
https://docs.databricks.com/en/delta/delta-change-data-feed.html

NEW QUESTION # 183

The operations team is interested in monitoring the recently launched product, team wants to set up an email alert when the number of units sold increases by more than 10,000 units. They want to monitor this every 5 mins.

Fill in the below blanks to finish the steps we need to take

* Create _____ query that calculates total units sold
* Setup _____ with query on trigger condition Units Sold > 10,000
* Setup _____ to run every 5 mins
* Add destination _____

- A. Python, Job, SQL Cluster, email address
- B. SQL, Job, Refresh, email address
- C. Python, Job, Refresh, email address
- D. SQL, Alert, Refresh, email address
- E. SQL, Job, SQL Cluster, email address

Answer: D

Explanation:
Explanation
The answer is SQL, Alert, Refresh, email address
Here the steps from Databricks documentation,
Create an alert
Follow these steps to create an alert on a single column of a query.
1.Do one of the following:
*Click Create in the sidebar and select Alert.
*Click Alerts in the sidebar and click the + New Alert button.

2. Search for a target query.

Graphical user interface, text, application Description automatically generated

To alert on multiple columns, you need to modify your query. See Alert on multiple col-umns.

3. In the Trigger when field, configure the alert.

*The Value column drop-down controls which field of your query result is evaluated.

*The Condition drop-down controls the logical operation to be applied.

*The Threshold text input is compared against the Value column using the Condition you specify.
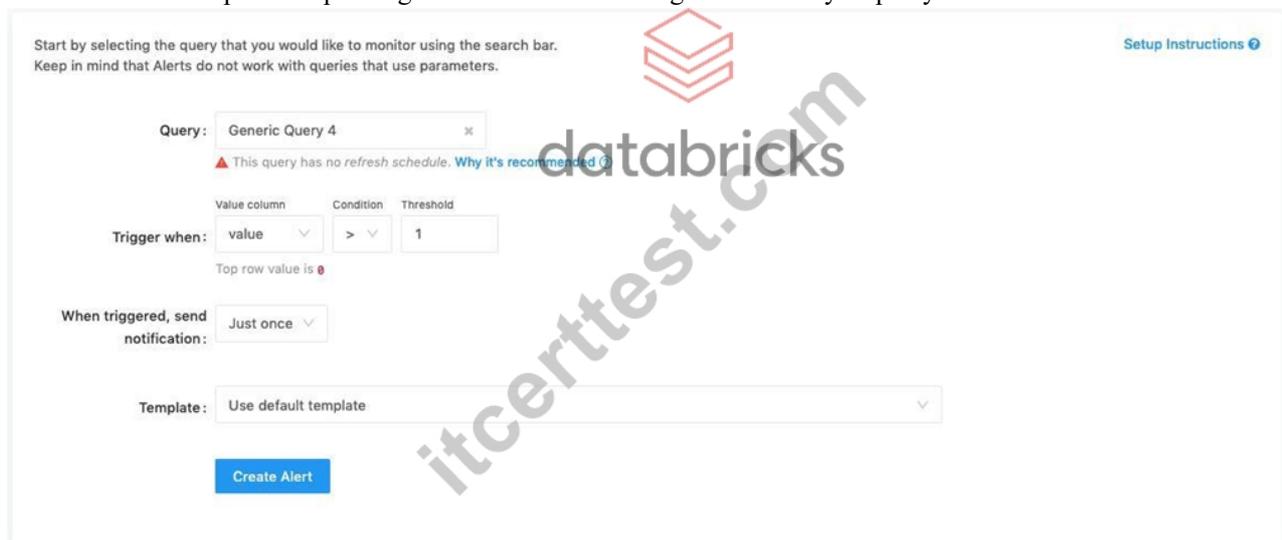
Note

If a target query returns multiple records, Databricks SQL alerts act on the first one. As you change the Value column setting, the current value of that field in the top row is shown beneath it.

4. In the When triggered, send notification field, select how many notifications are sent when your alert is triggered:

*Just once: Send a notification when the alert status changes from OK to TRIGGERED.

*Each time alert is evaluated: Send a notification whenever the alert status is TRIGGERED regardless of its status at the previous evaluation.

*At most every: Send a notification whenever the alert status is TRIGGERED at a spe-cific interval. This choice lets you avoid notification spam for alerts that trigger of-ten.

Regardless of which notification setting you choose, you receive a notification whenever the status goes from OK to TRIGGERED or from TRIGGERED to OK. The schedule settings affect how many notifications you will receive if the status remains TRIGGERED from one execution to the next. For details, see Notification frequency.

5. In the Template drop-down, choose a template:

*Use default template: Alert notification is a message with links to the Alert configuration screen and the Query screen.

*Use custom template: Alert notification includes more specific information about the alert.

a. A box displays, consisting of input fields for subject and body. Any static content is valid, and you can incorporate built-in template variables:

*ALERT_STATUS: The evaluated alert status (string).

*ALERT_CONDITION: The alert condition operator (string).

*ALERT_THRESHOLD: The alert threshold (string or number).

*ALERT_NAME: The alert name (string).

*ALERT_URL: The alert page URL (string).

*QUERY_NAME: The associated query name (string).

*QUERY_URL: The associated query page URL (string).

*QUERY_RESULT_VALUE: The query result value (string or number).
*QUERY_RESULT_ROWS: The query result rows (value array).
*QUERY_RESULT_COLS: The query result columns (string array).
An example subject, for instance, could be: Alert "{{ALERT_NAME}}" changed status to {{ALERT_STATUS}}.
b.Click the Preview toggle button to preview the rendered result.
Important
The preview is useful for verifying that template variables are rendered cor-rectly. It is not an accurate representation of the eventual notification content, as each alert destination can display notifications differently.
c.Click the Save Changes button.
6.In Refresh, set a refresh schedule. An alert's refresh schedule is independent of the query's refresh schedule.
*If the query is a Run as owner query, the query runs using the query owner's cre-dential on the alert's refresh schedule.
*If the query is a Run as viewer query, the query runs using the alert creator's cre-dential on the alert's refresh schedule.
7.Click Create Alert.
8.Choose an alert destination.
Important
If you skip this step you will not be notified when the alert is triggered.

NEW QUESTION # 184
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