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Databricks Certified Professional Data Engineer Exam Sample Questions (Q137-Q142):

NEW QUESTION # 137

Which of the following developer operations in the CI/CD can only be implemented through a GIT provider when using Databricks Repos.

- A. Trigger Databricks Repos pull API to update the latest version
- **B. Pull request and review process**
- C. Create and edit code
- D. Create a new branch
- E. Commit and push code

Answer: B

Explanation:

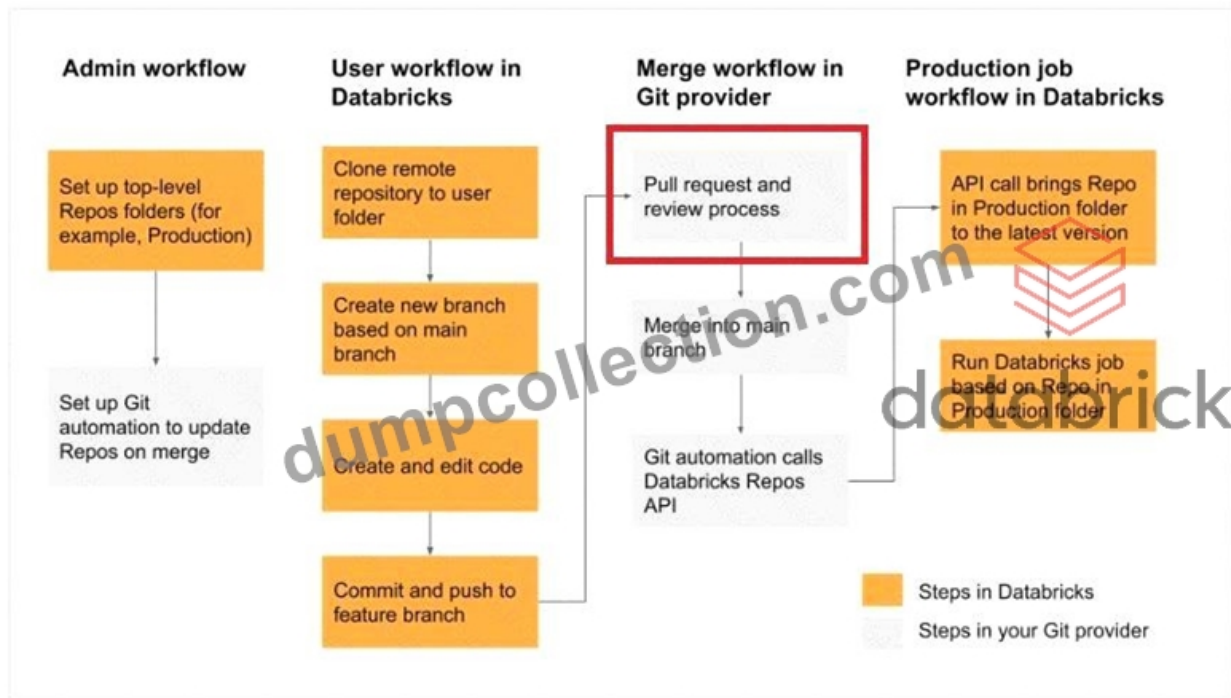
Explanation

The answer is Pull request and review process, please note: the question is asking for steps that are being implemented in GIT provider not Databricks Repos.

See below diagram to understand the role of Databricks Repos and Git provider plays when building a CI/CD workflow.

All the steps highlighted in yellow can be done Databricks Repo, all the steps highlighted in Gray are done in a git provider like Github or Azure Devops.

Diagram Description automatically generated



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NEW QUESTION # 138

Projecting a multi-dimensional dataset onto which vector has the greatest variance?

- A. first principal component
- B. second principal component
- C. second eigenvector
- D. not enough information given to answer
- E. first eigenvector

Answer: A

Explanation:

Explanation

The method based on principal component analysis (PCA) evaluates the features according to the projection of the largest eigenvector of the correlation matrix on the initial dimensions, the method based on Fisher's linear discriminant analysis evaluates. Then according to the magnitude of the components of the discriminant vector.

The first principal component corresponds to the greatest variance in the data, by definition. If we project the data onto the first principal component line, the data is more spread out (higher variance) than if projected onto any other line, including other principal components.

NEW QUESTION # 139

Which statement describes integration testing?

- A. Validates behavior of individual elements of your application
- B. Requires an automated testing framework

- C. Validates an application use case
- **D. Validates interactions between subsystems of your application**
- E. Requires manual intervention

Answer: D

Explanation:

Explanation

This is the correct answer because it describes integration testing. Integration testing is a type of testing that validates interactions between subsystems of your application, such as modules, components, or services.

Integration testing ensures that the subsystems work together as expected and produce the correct outputs or results. Integration testing can be done at different levels of granularity, such as component integration testing, system integration testing, or end-to-end testing. Integration testing can help detect errors or bugs that may not be found by unit testing, which only validates behavior of individual elements of your application. Verified References: [Databricks Certified Data Engineer Professional], under "Testing" section; Databricks Documentation, under "Integration testing" section.

NEW QUESTION # 140

The data engineering team maintains the following code:

```
spark.table("silver_customer_sales")
  .groupBy("customer_id")
  .agg(
    F.min("sale_date").alias("first_transaction_date"),
    F.max("sale_date").alias("last_transaction_date"),
    F.mean("sale_total").alias("average_sales"),
    F.countDistinct("order_id").alias("total_orders"),
    F.sum("sale_total").alias("lifetime_value")
  ).write
  .mode("overwrite")
  .table("gold_customer_lifetime_sales_summary")
```

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

- A. An incremental job will leverage running information in the state store to update aggregate values in the gold_customer_lifetime_sales_summary table.
- B. A batch job will update the gold_customer_lifetime_sales_summary table, replacing only those rows that have different values than the current version of the table, using customer_id as the primary key.
- C. The silver_customer_sales table will be overwritten by aggregated values calculated from all records in the gold_customer_lifetime_sales_summary table as a batch job.
- D. An incremental job will detect if new rows have been written to the silver_customer_sales table; if new rows are detected, all aggregates will be recalculated and used to overwrite the gold_customer_lifetime_sales_summary table.
- **E. 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.**

Answer: E

Explanation:

This code is using the pyspark.sql.functions library to group the silver_customer_sales table by customer_id and then aggregate the data using the minimum sale date, maximum sale total, and sum of distinct order ids. The resulting aggregated data is then written to the gold_customer_lifetime_sales_summary table, overwriting any existing data in that table. This is a batch job that does not use any incremental or streaming logic, and does not perform any merge or update operations. Therefore, the code will overwrite the gold table with the aggregated values from the silver table every time it is executed. Reference:

<https://docs.databricks.com/spark/latest/dataframes-datasets/introduction-to-dataframes-python.html>

<https://docs.databricks.com/spark/latest/dataframes-datasets/transforming-data-with-dataframes.html>

<https://docs.databricks.com/spark/latest/dataframes-datasets/aggregating-data-with-dataframes.html>

NEW QUESTION # 141

Your colleague was walking you through how a job was setup, but you noticed a warning message that said, "Jobs running on all-purpose cluster are considered all purpose compute", the colleague was not sure why he was getting the warning message, how do you best explain this warning mes-sage?

- A. All-purpose clusters are more expensive than the job clusters
- B. All-purpose clusters are less expensive than the job clusters
- C. All-purpose clusters take longer to start the cluster vs a job cluster
- D. All-purpose cluster provide interactive messages that can not be viewed in a job
- E. All-purpose clusters cannot be used for Job clusters, due to performance issues.

Answer: A

Explanation:

Explanation

Warning message:

Graphical user interface, text, application, email Description automatically generated

The screenshot shows the Databricks job creation form. The 'Task name' field contains 'test_job'. The 'Type' is set to 'Notebook' and the 'Source' is set to 'Workspace'. The 'Path' is '/Users/[redacted]/Data Analysis'. The 'Cluster' is 'SingleNode (DBR 10.4 LTS | Spark 3.2.1 | Scala 2.12)'. A red circle highlights a warning message: 'Jobs running on all-purpose clusters are considered all-purpose compute. [Learn more](#)'. Below the warning, there are 'Parameters' and 'Advanced options' sections. At the bottom right, there are 'Cancel' and 'Create' buttons.

Pricing for All-purpose clusters are more expensive than the job clusters AWS pricing(Aug 15th 2022)Graphical user interface
Description automatically generated

aws		Standard	Premium	Enterprise
		One platform for your data analytics and ML workloads	Data analytics and ML at scale across your business	Data analytics and ML for your mission critical workloads
CLASSIC COMPUTE	Jobs Light Compute Run data engineering pipelines to build data lakes.	\$0.07 / DBU	\$0.10 / DBU	\$0.13 / DBU
	Jobs Compute Jobs Compute Photon Run data engineering pipelines to build data lakes and manage data at scale.	\$0.10 / DBU	\$0.15 / DBU	\$0.20 / DBU
	Delta Live Tables Delta Live Tables Photon Easily build high quality streaming or batch ETL pipelines using Python or SQL with the DLT Edition that is best for your workload. Learn more	\$0.20 - \$0.36 / DBU	\$0.20 - \$0.36 / DBU	\$0.20 - \$0.36 / DBU
	SQL Compute Run SQL queries for BI reporting, analytics and visualization to get timely insights from data lakes.	-	\$0.22 / DBU	\$0.22 / DBU
	All-Purpose Compute All-Purpose Compute Photon Run interactive data science and machine learning workloads. Also good for data engineering, BI and data analytics.	\$0.40 / DBU	\$0.55 / DBU	\$0.65 / DBU
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NEW QUESTION # 142

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