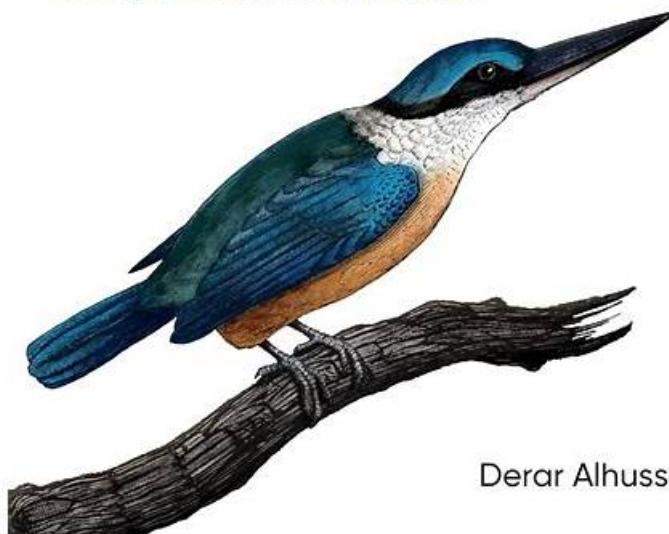


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Databricks Certified Data Engineer Associate Exam Sample Questions (Q56-Q61):

NEW QUESTION # 56

A data engineer has a Python notebook in Databricks, but they need to use SQL to accomplish a specific task within a cell. They still want all of the other cells to use Python without making any changes to those cells.

Which of the following describes how the data engineer can use SQL within a cell of their Python notebook?

- A. They can simply write SQL syntax in the cell
- **B. They can add %sql to the first line of the cell**
- C. They can attach the cell to a SQL endpoint rather than a Databricks cluster
- D. It is not possible to use SQL in a Python notebook
- E. They can change the default language of the notebook to SQL

Answer: B

NEW QUESTION # 57

A data engineer is running code in a Databricks Repo that is cloned from a central Git repository. A colleague of the data engineer informs them that changes have been made and synced to the central Git repository. The data engineer now needs to sync their Databricks Repo to get the changes from the central Git repository.

Which of the following Git operations does the data engineer need to run to accomplish this task?

- A. Merge
- B. Push
- C. Clone
- D. Commit
- **E. Pull**

Answer: E

Explanation:

To sync a Databricks Repo with the changes from a central Git repository, the data engineer needs to run the Git pull operation. This operation fetches the latest updates from the remote repository and merges them with the local repository. The data engineer can use the Pull button in the Databricks Repos UI, or use the git pull command in a terminal session. The other options are not relevant for this task, as they either push changes to the remote repository (Push), combine two branches (Merge), save changes to the local repository (Commit), or create a new local repository from a remote one (Clone). References:

* Run Git operations on Databricks Repos

* Git pull

NEW QUESTION # 58

Which of the following describes a benefit of creating an external table from Parquet rather than CSV when using a CREATE TABLE AS SELECT statement?

- **A. Parquet files have a well-defined schema**
- B. Parquet files can be partitioned
- C. Parquet files will become Delta tables

- D. CREATE TABLE AS SELECT statements cannot be used on files
- E. Parquet files have the ability to be optimized

Answer: A

Explanation:

Option C is the correct answer because Parquet files have a well-defined schema that is embedded within the data itself. This means that the data types and column names of the Parquet files are automatically detected and preserved when creating an external table from them. This also enables the use of SQL and other structured query languages to access and analyze the data. CSV files, on the other hand, do not have a schema embedded in them, and require specifying the schema explicitly or inferring it from the data when creating an external table from them. This can lead to errors or inconsistencies in the data types and column names, and also increase the processing time and complexity.

CREATE TABLE AS SELECT, Parquet Files, CSV Files, Parquet vs. CSV

NEW QUESTION # 59

A data engineer needs to apply custom logic to identify employees with more than 5 years of experience in array column employees in table stores. The custom logic should create a new column exp_employees that is an array of all of the employees with more than 5 years of experience for each row. In order to apply this custom logic at scale, the data engineer wants to use the FILTER higher-order function.

Which of the following code blocks successfully completes this task?

```

SELECT
    store_id,
    employees,
    FILTER (employees, i -> i.years_exp > 5) AS exp_employees
FROM stores;

SELECT
    store_id,
    employees,
    FILTER (exp_employees, years_exp > 5) AS exp_employees
FROM stores;

SELECT
    store_id,
    employees,
    FILTER (employees, years_exp > 5) AS exp_employees
FROM stores;

SELECT
    store_id,
    employees,
    CASE WHEN employees.years_exp > 5 THEN employees
         ELSE NULL
    END AS exp_employees
FROM stores;

SELECT
    store_id,
    employees,
    FILTER (exp_employees, i -> i.years_exp > 5) AS exp_employees
FROM stores;

```

- A. Option D

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

Answer: B

Explanation:

Option A is the correct answer because it uses the FILTER higher-order function correctly to filter out employees with more than 5 years of experience from the array column "employees". It applies a lambda function $i \rightarrow i.\text{years_exp} > 5$ that checks if the years of experience of each employee in the array is greater than 5. If this condition is met, the employee is included in the new array column "exp_employees".

References: The use of higher-order functions like FILTER can be referenced from Databricks documentation on Higher-Order Functions.

NEW QUESTION # 60

A data engineer is working with two tables. Each of these tables is displayed below in its entirety.

sales

customer_id	spend	units
a1	28.94	7
a3	874.12	23
a4	8.99	1

favorite_stores

customer_id	store_id
a1	s1
a2	s1
a4	s2

The data engineer runs the following query to join these tables together:

```
SELECT
    sales.customer_id,
    sales.spend,
    favorite_stores.store_id
FROM sales
LEFT JOIN favorite_stores
ON sales.customer_id = favorite_stores.customer_id;
```



databricks

Which of the following will be returned by the above query?

	customer_id	spend	store_id
A.	a1	28.94	s1
	a4	8.99	s2
	customer_id	spend	units
B.	a1	28.94	7
	a4	8.99	1
	customer_id	spend	store_id
C.	a1	28.94	s1
	a3	874.12	NULL
	a4	8.99	s2
	customer_id	spend	store_id
D.	a1	28.94	s1
	a2	NULL	s1
	a3	874.12	NULL
	a4	8.99	s2
	customer_id	spend	store_id
E.	a1	28.94	s1
	a2	NULL	s1
	a4	8.99	s2

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

Answer: E

NEW QUESTION # 61

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