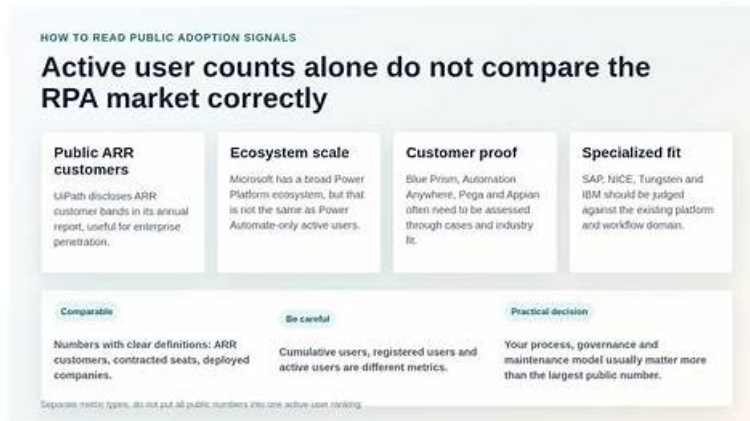


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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q42-Q47):

NEW QUESTION # 42

A developer is working with a pandas DataFrame containing user behavior data from a web application. Which approach should be used for executing a groupBy operation in parallel across all workers in Apache Spark 3.5?

- A) Use the applyInPandas API
- B)

```
import pandas as pd
def mean_func(key, pdf):
    return pd.DataFrame([key + (pdf['value'].mean(),)])

df.groupby('user_id').applyInPandas(mean_func, schema="user_id long, value double").show()
Utilize the mapInPandas API:
```

C)

```
df.mapInPandas(mean_func, schema="user_id long, value double").show()
Use a regular Spark UDF (User-Defined Function)

from pyspark.sql.functions import mean
df.groupBy('user_id').agg(mean('value')).show()
```

D)

Create a Pandas UDF (User-Defined Function):

```
from pyspark.sql.functions import pandas_udf

@pandas_udf("double")
def mean_func(value: pd.Series) -> float:
    return value.mean()

df.groupby("user_id").agg(mean_func(df['value'])).show()
```

- A. Use a Pandas UDF:

```
@pandas_udf("double")
def mean_func(value: pd.Series) -> float:
    return value.mean()
df.groupby("user_id").agg(mean_func(df["value"])).show()
```
- B. Use a regular Spark UDF:

```
from pyspark.sql.functions import mean
df.groupBy("user_id").agg(mean("value")).show()
```
- C. Use the mapInPandas API:

```
df.mapInPandas(mean_func, schema="user_id long, value double").show()
```
- **D. Use the applyInPandas API:**

```
df.groupby("user_id").applyInPandas(mean_func, schema="user_id long, value double").show()
```

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The correct approach to perform a parallelized groupBy operation across Spark worker nodes using Pandas API is via applyInPandas. This function enables grouped map operations using Pandas logic in a distributed Spark environment. It applies a user-defined function to each group of data represented as a Pandas DataFrame.

As per the Databricks documentation:

"applyInPandas() allows for vectorized operations on grouped data in Spark. It applies a user-defined function to each group of a DataFrame and outputs a new DataFrame. This is the recommended approach for using Pandas logic across grouped data with parallel execution." Option A is correct and achieves this parallel execution.

Option B (mapInPandas) applies to the entire DataFrame, not grouped operations.

Option C uses built-in aggregation functions, which are efficient but not customizable with Pandas logic.

Option D creates a scalar Pandas UDF which does not perform a group-wise transformation.

Therefore, to run a groupBy with parallel Pandas logic on Spark workers, Option A using applyInPandas is the only correct answer.

Reference: Apache Spark 3.5 Documentation # Pandas API on Spark # Grouped Map Pandas UDFs (applyInPandas)

NEW QUESTION # 43

48 of 55.

A data engineer needs to join multiple DataFrames and has written the following code:

```
from pyspark.sql.functions import broadcast
data1 = [(1, "A"), (2, "B")]
data2 = [(1, "X"), (2, "Y")]
data3 = [(1, "M"), (2, "N")]
df1 = spark.createDataFrame(data1, ["id", "val1"])
df2 = spark.createDataFrame(data2, ["id", "val2"])
df3 = spark.createDataFrame(data3, ["id", "val3"])
df_joined = df1.join(broadcast(df2), "id", "inner") \
.join(broadcast(df3), "id", "inner")
```

What will be the output of this code?

- A. The code will result in an error because `broadcast()` must be called before the joins, not inline.
- **B. The code will work correctly and perform two broadcast joins simultaneously to join `df1` with `df2`, and then the result with `df3`.**
- C. The code will fail because the second join condition (`df2.id == df3.id`) is incorrect.
- D. The code will fail because only one broadcast join can be performed at a time.

Answer: B

Explanation:

Spark supports multiple broadcast joins in a single query plan, as long as each broadcasted DataFrame is small enough to fit under the configured threshold.

Execution Plan:

Spark broadcasts `df2` to all executors.

Joins `df1` (big) with broadcasted `df2`.

Then broadcasts `df3` and performs another join with the intermediate result.

The result is efficient and avoids shuffling large data.

Why the other options are incorrect:

B: Multiple broadcast joins are supported in Spark 3.x.

C: The join condition is correct since all use `id` as the key.

D: `broadcast()` can be used inline; it's valid syntax.

Reference:

PySpark SQL Functions - `broadcast()` usage.

Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - multiple broadcast join optimization.

NEW QUESTION # 44

A Data Analyst needs to retrieve employees with 5 or more years of tenure.

Which code snippet filters and shows the list?

- A. `employees_df.where(employees_df.tenure >= 5)`
- **B. `employees_df.filter(employees_df.tenure >= 5).show()`**
- C. `filter(employees_df.tenure >= 5)`
- D. `employees_df.filter(employees_df.tenure >= 5).collect()`

Answer: B

Explanation:

To filter rows based on a condition and display them in Spark, use `filter(...).show()`:

```
employees_df.filter(employees_df.tenure >= 5).show()
```

Option A is correct and shows the results.

Option B filters but doesn't display them.

Option C uses Python's built-in filter, not Spark.

Option D collects the results to the driver, which is unnecessary if `.show()` is sufficient.

Final answer: A

NEW QUESTION # 45

A developer is working with a pandas DataFrame containing user behavior data from a web application. Which approach should be used for executing a groupBy operation in parallel across all workers in Apache Spark 3.5?

- A) Use the applyInPandas API
- B)

```
import pandas as pd
def mean_func(key, pdf):
    return pd.DataFrame([key + (pdf['value'].mean(),)])

df.groupby('user_id').applyInPandas(mean_func, schema="user_id long, value double").show()
Utilize the mapInPandas API:
```

C)

```
df.mapInPandas(mean_func, schema="user_id long, value double").show()
Use a regular Spark UDF (User-Defined Function)

from pyspark.sql.functions import mean
df.groupby('user_id').agg(mean('value')).show()
```

Create a Pandas UDF (User-Defined Function):

```
from pyspark.sql.functions import pandas_udf

@pandas_udf("double")
def mean_func(value: pd.Series) -> float:
    return value.mean()

df.groupby("user_id").agg(mean_func(df['value'])).show()
```

- A. Use a Pandas UDF:
@pandas_udf("double")
def mean_func(value: pd.Series) -> float:
return value.mean()
df.groupby("user_id").agg(mean_func(df["value"])).show()
- B. Use a regular Spark UDF:
from pyspark.sql.functions import mean
df.groupby("user_id").agg(mean("value")).show()
- C. Use the mapInPandas API:
df.mapInPandas(mean_func, schema="user_id long, value double").show()
- D. Use the applyInPandas API:
df.groupby("user_id").applyInPandas(mean_func, schema="user_id long, value double").show()

Answer: D

Explanation:

The correct approach to perform a parallelized groupBy operation across Spark worker nodes using Pandas API is via applyInPandas. This function enables grouped map operations using Pandas logic in a distributed Spark environment. It applies a user-defined function to each group of data represented as a Pandas DataFrame.

As per the Databricks documentation:

"applyInPandas() allows for vectorized operations on grouped data in Spark. It applies a user-defined function to each group of a DataFrame and outputs a new DataFrame. This is the recommended approach for using Pandas logic across grouped data with parallel execution." Option A is correct and achieves this parallel execution.

Option B (mapInPandas) applies to the entire DataFrame, not grouped operations.

Option C uses built-in aggregation functions, which are efficient but not customizable with Pandas logic.

Option D creates a scalar Pandas UDF which does not perform a group-wise transformation.

Therefore, to run a groupBy with parallel Pandas logic on Spark workers, Option A using applyInPandas is the only correct answer.

NEW QUESTION # 46

Given the code fragment:

```
import pyspark.pandas as ps
psdf = ps.DataFrame({'col1': [1, 2], 'col2': [3, 4]})
```

```
import pyspark.pandas as ps
psdf = ps.DataFrame({'col1': [1, 2], 'col2': [3, 4]})
```

Which method is used to convert a Pandas API on Spark DataFrame (pyspark.pandas.DataFrame) into a standard PySpark DataFrame (pyspark.sql.DataFrame)?

- A. psdf.to_pyspark()
- **B. psdf.to_spark()**
- C. psdf.to_dataframe()
- D. psdf.to_pandas()

Answer: B

Explanation:

Pandas API on Spark (pyspark.pandas) allows interoperability with PySpark DataFrames. To convert a pyspark.pandas.DataFrame to a standard PySpark DataFrame, you use .to_spark().

Example:

```
df = psdf.to_spark()
```

This is the officially supported method as per Databricks Documentation.

Incorrect options:

B, D: Invalid or nonexistent methods.

C: Converts to a local pandas DataFrame, not a PySpark DataFrame.

NEW QUESTION # 47

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Originally from Durban, South Africa, Craig has lived in the Associate-Developer-Apache-Spark-3.5 Pdf Files United Kingdom, the San Francisco Bay Area, and New Jersey, where he now lives with his wife Karen and a couple of cats.

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