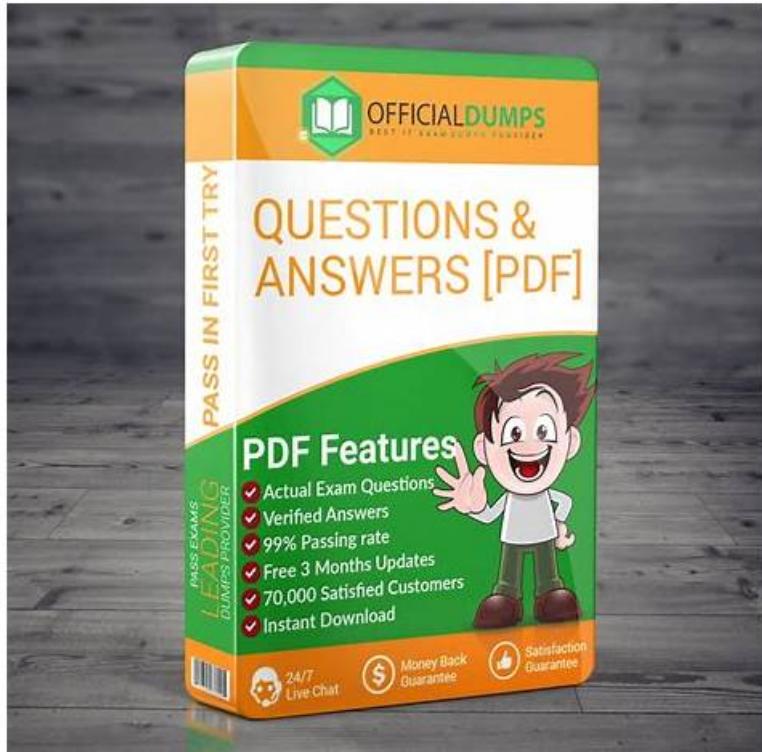


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Databricks Certified Associate Developer for Apache Spark 3.5 - Python

Sample Questions (Q16-Q21):

NEW QUESTION # 16

A data scientist is working with a Spark DataFrame called `customerDF` that contains customer information.

The DataFrame has a column named `email` with customer email addresses. The data scientist needs to split this column into `username` and `domain` parts.

Which code snippet splits the `email` column into `username` and `domain` columns?

- A. `customerDF.withColumn("username", substring_index(col("email"), "@", 1))\n.withColumn("domain", substring_index(col("email"), "@", -1))`
- B. `customerDF.select(\n col("email").substr(0, 5).alias("username"),\n col("email").substr(-5).alias("domain")\n)`
- C. `customerDF.select(\n regexp_replace(col("email"), "@", "").alias("username"),\n regexp_replace(col("email"), "@", "").alias("domain")\n)`
- D. `customerDF.withColumn("username", split(col("email"), "@").getItem(0))\n.withColumn("domain", split(col("email"), "@").getItem(1))`

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Option B is the correct and idiomatic approach in PySpark to split a string column (like `email`) based on a delimiter such as `"@"`.

The `split(col("email"), "@")` function returns an array with two elements: `username` and `domain`.

`getItem(0)` retrieves the first part (`username`).

`getItem(1)` retrieves the second part (`domain`).

`withColumn()` is used to create new columns from the extracted values.

Example from official Databricks Spark documentation on splitting columns:

```
from pyspark.sql.functions import split, col\ndf.withColumn("username", split(col("email"), "@").getItem(0))\nwithColumn("domain", split(col("email"), "@").getItem(1))
```

##Why other options are incorrect:

A uses fixed substring indices (`substr(0, 5)`), which won't correctly extract usernames and domains of varying lengths.

C uses `substring_index`, which is available but less idiomatic for splitting emails and is slightly less readable.

D removes `"@"` from the email entirely, losing the separation between `username` and `domain`, and ends up duplicating values in both fields.

Therefore, Option B is the most accurate and reliable solution according to Apache Spark 3.5 best practices.

NEW QUESTION # 17

Given this code:

```
inputStream\n    .withWatermark("event_time", "10 minutes")\n    .groupBy(window("event_time", "15 minutes"))\n    .count()\n\n.withWatermark("event_time","10 minutes")\n.groupBy(window("event_time","15 minutes"))\n.count()
```

What happens to data that arrives after the watermark threshold?

Options:

- A. Data arriving more than 10 minutes after the latest watermark will still be included in the aggregation but will be placed into the next window.
- B. The watermark ensures that late data arriving within 10 minutes of the latest `event_time` will be processed and included in the windowed aggregation.
- C. Any data arriving more than 10 minutes after the watermark threshold will be ignored and not included in the aggregation.

- D. Records that arrive later than the watermark threshold (10 minutes) will automatically be included in the aggregation if they fall within the 15-minute window.

Answer: C

Explanation:

According to Spark's watermarking rules:

"Records that are older than the watermark (event time < current watermark) are considered too late and are dropped." So, if a record's event_time is earlier than (max event_time seen so far - 10 minutes), it is discarded.

Reference: Structured Streaming - Handling Late Data

NEW QUESTION # 18

36 of 55.

What is the main advantage of partitioning the data when persisting tables?

- A. It ensures that data is loaded into memory all at once for faster query execution.
- B. It compresses the data to save disk space.
- C. It automatically cleans up unused partitions to optimize storage.
- D. It optimizes by reading only the relevant subset of data from fewer partitions.

Answer: D

Explanation:

Partitioning a dataset divides data into separate directories based on partition column values. When queries filter on partitioned columns, Spark can prune irrelevant partitions - meaning it only reads files that match the filter criteria.

Advantage:

Reduces I/O and improves performance by scanning only relevant subsets of data.

Example:

/data/sales/year=2023/month=10/...

/data/sales/year=2024/month=01/...

A query filtering WHERE year = 2024 reads only the relevant partition.

Why the other options are incorrect:

A: Compression is independent of partitioning.

B: Spark does not automatically clean partitions unless managed manually.

C: Partitioning does not cause Spark to load entire data into memory.

Reference:

Databricks Exam Guide (June 2025): Section "Using Spark SQL" - partitioning and pruning for optimized data retrieval.

Spark SQL Documentation - DataFrameWriter partitionBy() and query optimization.

NEW QUESTION # 19

What is the behavior for function date_sub(start, days) if a negative value is passed into the days parameter?

- A. The number of days specified will be removed from the start date
- B. The same start date will be returned
- C. An error message of an invalid parameter will be returned
- D. The number of days specified will be added to the start date

Answer: D

Explanation:

The function date_sub(start, days) subtracts the number of days from the start date. If a negative number is passed, the behavior becomes a date addition.

Example:

SELECT date_sub('2024-05-01', -5)

-- Returns: 2024-05-06

So, a negative value effectively adds the absolute number of days to the date.

NEW QUESTION # 20

26 of 55.

A data scientist at an e-commerce company is working with user data obtained from its subscriber database and has stored the data in a DataFrame `df_user`.

Before further processing, the data scientist wants to create another DataFrame `df_user_non_pii` and store only the non-PII columns.

The PII columns in `df_user` are `name`, `email`, and `birthdate`.

Which code snippet can be used to meet this requirement?

- A. `df_user_non_pii = df_user.select("name", "email", "birthdate")`
- B. `df_user_non_pii = df_user.remove("name", "email", "birthdate")`
- C. `df_user_non_pii = df_user.drop("name", "email", "birthdate")`
- D. `df_user_non_pii = df_user.dropFields("name", "email", "birthdate")`

Answer: C

Explanation:

To exclude sensitive (PII) columns from a DataFrame, the easiest method is to use the `.drop()` function with the list of column names to remove.

Correct syntax:

`df_user_non_pii = df_user.drop("name", "email", "birthdate")`

This creates a new DataFrame containing all remaining columns.

Why the other options are incorrect:

B: `.dropFields()` is not valid for standard DataFrames - it's used for struct fields only.

C: `.select()` would keep only PII columns, not remove them.

D: `.remove()` does not exist in Spark DataFrame API.

Reference:

PySpark DataFrame API - `drop()` method for removing multiple columns.

Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - data manipulation, selecting, and dropping columns.

NEW QUESTION # 21

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