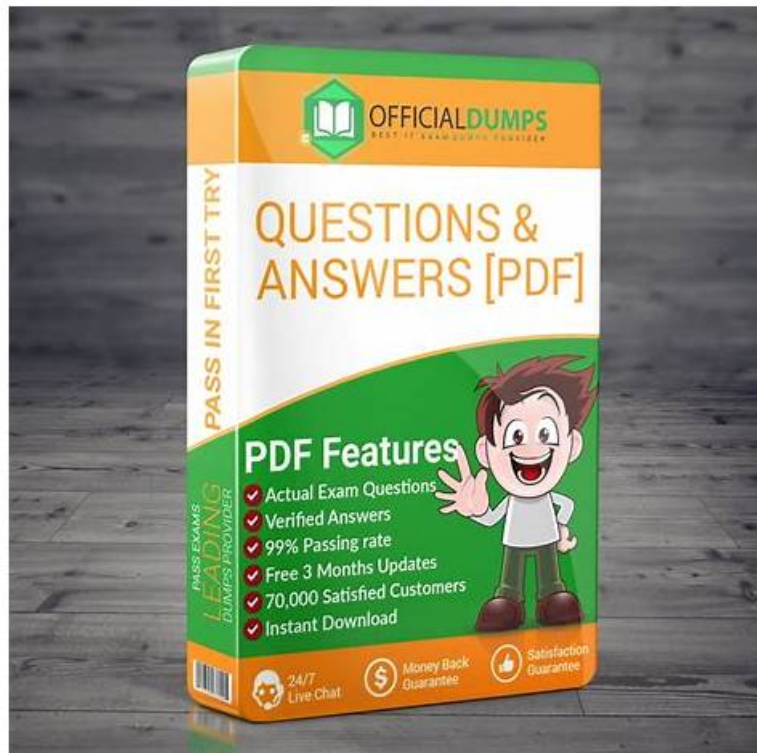


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Databricks Certified Associate Developer for Apache Spark 3.5 - Python

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)) \`
`.withColumn("domain", substring_index(col("email"), "@", -1))`
- B. `customerDF.select(`
`col("email").substr(0, 5).alias("username"),`
`col("email").substr(-5).alias("domain")`
`)`
- C. `customerDF.select(`
`regexp_replace(col("email"), "@", "").alias("username"),`
`regexp_replace(col("email"), "@", "").alias("domain")`
`)`
- D. `customerDF.withColumn("username", split(col("email"), "@").getItem(0)) \`
`.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
df.withColumn("username", split(col("email"), "@").getItem(0)) \
  withColumn("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
  .withWatermark("event_time", "10 minutes")
  .groupBy(window("event_time", "15 minutes"))
  .count()
```

```
.withWatermark("event_time", "10 minutes")
.groupBy(window("event_time", "15 minutes"))
.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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