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Q&As

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QUESTION 1

Which of the following code blocks returns a DataFrame with a single column in which all items in column attributes of DataFrame itemsDf are listed that contain the letter i?

Sample of DataFrame itemsDf:

1.	+	-----	+	-----	+	-----	+	-----	+
2.		itemId		itemName		attributes		supplier	
3.	+	-----	+	-----	+	-----	+	-----	+
4.		1		Thick Coat for Walking in the Snow		[blue, winter, cozy]		Sports Company Inc.	
5.		2		Elegant Outdoors Summer Dress		[red, summer, fresh, cooling]		YetiX	
6.		3		Outdoors Backpack		[green, summer, travel]		Sports Company Inc.	
7.	+	-----	+	-----	+	-----	+	-----	+

- A. itemsDf.select(explode("attributes").alias("attributes_exploded")).filter(attributes_exploded.c ontains ("i"))
- B. itemsDf.explode(attributes).alias("attributes_exploded").filter(col("attributes_exploded").con tains("i"))
- C. itemsDf.select(explode("attributes")).filter("attributes_exploded".contains("i"))
- D. itemsDf.select(explode("attributes").alias("attributes_exploded")).filter(col("attributes_explo ded").contains("i"))
- E. itemsDf.select(col("attributes").explode().alias("attributes_exploded")).filter(col("attributes_e xploded").contains("i"))

Correct Answer: D

QUESTION 2

Which of the following statements about stages is correct?

- A. Different stages in a job may be executed in parallel.
- B. Stages consist of one or more jobs.
- C. Stages ephemerally store transactions, before they are committed through actions.
- D. Tasks in a stage may be executed by multiple machines at the same time.
- E. Stages may contain multiple actions, narrow, and wide transformations.

Correct Answer: D

QUESTION 3

The code block displayed below contains multiple errors. The code block should return a DataFrame that contains only columns transactionId, predError, value and storeId of DataFrame transactionsDf. Find the errors.

Code block:

```
transactionsDf.select([col(productId), col(f)])
```

Sample of transactionsDf:

```
1. +-----+-----+-----+-----+-----+-----+
2. |transactionId|predError|value|storeId|productId| f| 3. +-----+-----+-----+-----+-----+
4. | 1| 3| 4| 25| 1|null|
5. | 2| 6| 7| 2| 2|null|
6. | 3| 3| null| 25| 3|null|
7. +-----+-----+-----+-----+-----+-----+-----+
```

- A. The column names should be listed directly as arguments to the operator and not as a list.
- B. The select operator should be replaced by a drop operator, the column names should be listed directly as arguments to the operator and not as a list, and all column names should be expressed as strings without being wrapped in a col() operator.
- C. The select operator should be replaced by a drop operator.
- D. The column names should be listed directly as arguments to the operator and not as a list and following the pattern of how column names are expressed in the code block, columns productId and f should be replaced by transactionId, predError, value and storeId.
- E. The select operator should be replaced by a drop operator, the column names should be listed directly as arguments to the operator and not as a list, and all col() operators should be removed.

Correct Answer: B

QUESTION 4

Which of the following code blocks returns a DataFrame that matches the multi-column DataFrame itemsDf, except that integer column itemId has been converted into a string column?

- A. itemsDf.withColumn("itemId", convert("itemId", "string"))
- B. itemsDf.withColumn("itemId", col("itemId").cast("string"))
- C. itemsDf.select(cast("itemId", "string"))

D. `itemsDf.withColumn("itemId", col("itemId").convert("string"))`

E. `spark.cast(itemsDf, "itemId", "string")`

Correct Answer: B

`itemsDf.withColumn("itemId", col("itemId").cast("string"))` Correct. You can convert the data type of a column using the `cast` method of the `Column` class. Also note that you will have to use the `withColumn` method on `itemsDf` for replacing the existing `itemId` column with the new version that contains strings. `itemsDf.withColumn("itemId", col("itemId").convert("string"))` Incorrect. The `Column` object that `col("itemId")` returns does not have a `convert` method.

`itemsDf.withColumn("itemId", convert("itemId", "string"))` Wrong. Spark's `spark.sql.functions` module does not have a `convert` method. The is trying to mislead you by using the word "converted". Type conversion is also called "type casting". This may help you remember to look for a `cast` method instead of a `convert` method (see correct answer).

`itemsDf.select(astype("itemId", "string"))` False. While `astype` is a method of `Column` (and an alias of `Column.cast`), it is not a method of `pyspark.sql.functions` (what the code block implies). In addition, the

QUESTION 5

Which of the following code blocks returns a copy of `DataFrame` `transactionsDf` where the column `storeId` has been converted to `string` type?

A. `transactionsDf.withColumn("storeId", convert("storeId", "string"))`

B. `transactionsDf.withColumn("storeId", col("storeId", "string"))`

C. `transactionsDf.withColumn("storeId", col("storeId").convert("string"))`

D. `transactionsDf.withColumn("storeId", col("storeId").cast("string"))`

E. `transactionsDf.withColumn("storeId", convert("storeId").as("string"))`

Correct Answer: D

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