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2

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## Amazon AWS Certified SysOps Administrator - Associate (SOA-C02) Sample Questions (Q325-Q330):

### NEW QUESTION # 325

A company hosts its website on Amazon EC2 instances behind an Application Load Balancer. The company manages its DNS with Amazon Route 53, and wants to point its domain's zone apex to the website.

Which type of record should be used to meet these requirements?

- A. An AAAA record for the domain's zone apex
- B. A CNAME record for the domain's zone apex
- C. An A record for the domain's zone apex
- D. An alias record for the domain's zone apex

**Answer: D**

Explanation:

Reference:

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/resource-record-sets-choosing-alias-no-n-alias.html>

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-to-elb-load-balancer.html>

### NEW QUESTION # 326

A company has set up an IPsec tunnel between its AWS environment and its on-premises data center. The tunnel is reporting as UP, but the Amazon EC2 instances are not able to ping any on-premises resources.

What should a SysOps administrator do to resolve this issue?

- A. Create a new inbound rule on the EC2 instances' security groups to allow ICMP traffic from the on-premises CIDR.
- B. Modify the VPC's DHCP options set. Add the IPsec tunnel to the VPN section.
- C. Create a peering connection between the IPsec tunnel and the subnet of the EC2 instances.
- D. Enable route propagation for the virtual private gateway in the route table that is assigned to the subnet of the EC2 instances.

**Answer: A**

Explanation:

[https://docs.aws.amazon.com/vpc/latest/userguide/VPC\\_SecurityGroups.html](https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html)

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### Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q43-Q48):

#### NEW QUESTION # 43

A data scientist has identified that some records in the user profile table contain null values in any of the fields, and such records should be removed from the dataset before processing. The schema includes fields like user\_id, username, date\_of\_birth, created\_ts, etc.

The schema of the user profile table looks like this:

```
user_id STRING,  
username STRING,  
full_name STRING,  
date_of_birth DATE,  
primary_email STRING,  
created_ts TIMESTAMP,  
updated_ts TIMESTAMP,  
last_login_ts TIMESTAMP
```

Which block of Spark code can be used to achieve this requirement?

Options:

- A. `filtered_df = users_raw_df.na.drop(how='any')`
- B. `filtered_df = users_raw_df.na.drop(thresh=0)`
- C. `filtered_df = users_raw_df.na.drop(how='all')`
- D. `filtered_df = users_raw_df.na.drop(how='all', thresh=None)`

**Answer: A**

Explanation:

`na.drop(how='any')` drops any row that has at least one null value.

This is exactly what's needed when the goal is to retain only fully complete records.

Usage: CopyEdit

```
filtered_df = users_raw_df.na.drop(how='any')
```

Explanation of incorrect options:

A: `thresh=0` is invalid - `thresh` must be # 1.

B: `how='all'` drops only rows where all columns are null (too lenient).

D: `spark.na.drop` doesn't support mixing `how` and `thresh` in that way; it's incorrect syntax.

Reference: PySpark DataFrameNaFunctions.drop()

#### NEW QUESTION # 44

The following code fragment results in an error:

```
@F.udf(T.IntegerType())
def simple_udf(t: str) -> str:
    return answer * 3.14159
```

Which code fragment should be used instead?

- A. `@F.udf(T.DoubleType())`  
`def simple_udf(t: float) -> float:`  
`return t * 3.14159`
- B. `@F.udf(T.IntegerType())`  
`def simple_udf(t: int) -> int:`  
`return t * 3.14159`
- C. `@F.udf(T.IntegerType())`  
`def simple_udf(t: float) -> float:`  
`return t * 3.14159`
- D. `@F.udf(T.DoubleType())`  
`def simple_udf(t: int) -> int:`  
`return t * 3.14159`

**Answer: A**

Explanation:

The original code has several issues:

It references a variable `answer` that is undefined.

The function is annotated to return a `str`, but the logic attempts numeric multiplication.

The UDF return type is declared as `T.IntegerType()` but the function performs a floating-point operation, which is incompatible.

Option B correctly:

Uses `DoubleType` to reflect the fact that the multiplication involves a float (3.14159).

Declares the input as `float`, which aligns with the multiplication.

Returns a `float`, which matches both the logic and the schema type annotation.

This structure aligns with how PySpark expects User Defined Functions (UDFs) to be declared:

"To define a UDF you must specify a Python function and provide the return type using the relevant Spark SQL type (e.g., `DoubleType` for float results)." Example from official documentation:

```
from pyspark.sql.functions import udf
from pyspark.sql.types import DoubleType
@udf(returnType=DoubleType())
def multiply_by_pi(x: float) -> float:
    return x * 3.14159
```

This makes Option B the syntactically and semantically correct choice.

#### NEW QUESTION # 45

17 of 55.

A data engineer has noticed that upgrading the Spark version in their applications from Spark 3.0 to Spark 3.5 has improved the runtime of some scheduled Spark applications.

Looking further, the data engineer realizes that Adaptive Query Execution (AQE) is now enabled.

Which operation should AQE be implementing to automatically improve the Spark application performance?

- A. Improving the performance of single-stage Spark jobs
- B. Dynamically switching join strategies
- C. Optimizing the layout of Delta files on disk
- D. Collecting persistent table statistics and storing them in the metastore for future use

**Answer: B**

Explanation:

Adaptive Query Execution (AQE) in Spark 3.x automatically optimizes query plans at runtime based on the actual data characteristics observed during job execution.

Key features of AQE include:

Dynamic switching of join strategies: Changes between sort-merge join and broadcast join based on actual shuffle sizes.

Coalescing shuffle partitions: Reduces small tasks and improves parallelism efficiency.

Handling skew joins: Dynamically splits large partitions to avoid data skew.

Thus, the most accurate answer describing AQE's function is "dynamically switching join strategies." Why the other options are incorrect:

B: Table statistics are collected manually or by the metastore, not by AQE.

C: AQE benefits multi-stage jobs involving shuffles, not single-stage jobs.

D: Delta file optimization is handled by Databricks utilities, not AQE.

Reference:

Databricks Exam Guide (June 2025): Section "Troubleshooting and Tuning Apache Spark DataFrame API Applications" - covers AQE and its benefits.

Spark 3.5 Release Notes - Adaptive Query Execution dynamic optimizations.

## NEW QUESTION # 46

18 of 55.

An engineer has two DataFrames - df1 (small) and df2 (large). To optimize the join, the engineer uses a broadcast join:

```
from pyspark.sql.functions import broadcast
```

```
df_result = df2.join(broadcast(df1), on="id", how="inner")
```

What is the purpose of using broadcast() in this scenario?

- A. It reduces the number of shuffle operations by replicating the smaller DataFrame to all nodes.
- B. It increases the partition size for df1 and df2.
- C. It ensures that the join happens only when the id values are identical.
- D. It filters the id values before performing the join.

**Answer: A**

Explanation:

A broadcast join is a type of join where the smaller DataFrame is replicated (broadcast) to all worker nodes in the cluster. This avoids shuffling the large DataFrame across the network.

Benefits:

Eliminates shuffle for the smaller dataset.

Greatly improves performance when one side of the join is small enough to fit in memory.

Correct usage example:

```
df_result = df2.join(broadcast(df1), "id")
```

This is a map-side join, where each executor joins its local partition of the large dataset with the broadcasted copy of the small one.

Why the other options are incorrect:

A: Broadcasting does not change partition sizes.

B: Joins always match on key equality; this is not specific to broadcast joins.

D: Broadcasting does not filter; it distributes data for faster joins.

Reference:

Databricks Exam Guide (June 2025): Section "Developing Apache Spark DataFrame/DataSet API Applications" - broadcast joins and partitioning strategies.

PySpark SQL Functions - broadcast() method documentation.

## NEW QUESTION # 47

A data analyst builds a Spark application to analyze finance data and performs the following operations: filter, select, groupBy, and coalesce.

Which operation results in a shuffle?

- A. coalesce
- B. groupBy
- C. filter
- D. select

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The groupBy() operation causes a shuffle because it requires all values for a specific key to be brought together, which may involve

moving data across partitions.

In contrast:

`filter()` and `select()` are narrow transformations and do not cause shuffles.

`coalesce()` tries to reduce the number of partitions and avoids shuffling by moving data to fewer partitions without a full shuffle (unlike `repartition()`).

Reference: Apache Spark - Understanding Shuffle

## NEW QUESTION # 48

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