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QUESTION 1

A data scientist has created a Python function compute_features that returns a Spark DataFrame with the following schema

```
customer_id STRING,
spend DOUBLE,
units INT,
loyal INT,
region STRING
```

The resulting DataFrame is assigned to the features_df variable. The data scientist wants to create a Feature Store table using features_df. Which of the following code blocks can they use to create and populate the Feature Store table using the Feature Store Client fs?

A.
```
fs.create_table(
    name="new_table",
    primary_keys="customer_id",
    df=features_df,
    description="Customer features"
)
```

B.
```
fs.create_table(
    name="new_table",
    primary_keys="customer_id",
    description="Customer features"
)
```

C. features_df.write.mode("fs").path("new_table")

D.
```
fs.create_table(
    name="new_table",
    primary_keys="customer_id",
    function=compute_features,
    description="Customer features"
)
```

E. features_df.write.mode("feature").path("new_table")

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

QUESTION 2

A machine learning engineer wants to view all of the active MLflow Model Registry Webhooks for a specific model. They are using the following code block:

```
from mlflow.utils.rest_utils import http_request
endpoint = "/api/2.0/mlflow/registry-webhooks/list/?model_name=model"
response = http_request(
    host_creds=host_creds,
    endpoint=endpoint,
    method="POST"
)
```

Which of the following changes does the machine learning engineer need to make to this code block so it will successfully accomplish the task?

A. There are no necessary changes

B. Replace list with view in the endpoint URL

C. Replace POST with GET in the call to http_request

D. Replace list with webhooks in the endpoint URL

E. Replace POST with PUT in the call to http_request

Correct Answer: C

QUESTION 3

Which of the following describes label drift?

A. Label drift is when there is a change in the distribution of the predicted target given by the model

B. None of these describe label drift

C. Label drift is when there is a change in the distribution of an input variable

D. Label drift is when there is a change in the relationship between input variables and target variables

E. Label drift is when there is a change in the distribution of a target variable

Correct Answer: E

QUESTION 4

Which of the following describes concept drift?

A. Concept drift is when there is a change in the distribution of an input variable

B. Concept drift is when there is a change in the distribution of a target variable

C. Concept drift is when there is a change in the relationship between input variables and target variables

D. Concept drift is when there is a change in the distribution of the predicted target given by the model

E. None of these describe Concept drift

Correct Answer: C

QUESTION 5

After a data scientist noticed that a column was missing from a production feature set stored as a Delta table, the machine learning engineering team has been tasked with determining when the column was dropped from the feature set. Which of the following SQL commands can be used to accomplish this task?

A. VERSION

B. DESCRIBE

C. HISTORY

D. DESCRIBE HISTORY

E. TIMESTAMP

Correct Answer: D

QUESTION 6

Which of the following operations in Feature Store Client fs can be used to return a Spark DataFrame of a data set associated with a Feature Store table?

A. fs.create_table

B. fs.write_table

C. fs.get_table

D. There is no way to accomplish this task with fs

E. fs.read_table

Correct Answer: E

QUESTION 7

A machine learning engineer has developed a random forest model using scikit-learn, logged the model using MLflow as random_forest_model, and stored its run ID in the run_id Python variable. They now want to deploy that model by performing batch inference on a Spark DataFrame spark_df.

Which of the following code blocks can they use to create a function called predict that they can use to complete the task?

A.
```
predict = mlflow.pyfunc.spark_udf(
    spark_df,
    f"runs:/{run_id}/random_forest_model"
)
```

B. It is not possible to deploy a scikit-learn model on a Spark DataFrame.

C.
```
predict = sklearn.spark_udf(
    spark_df,
    f"runs:/{run_id}/random_forest_model"
)
```

D.
```
predict = spark.spark_udf(
    f"runs:/{run_id}/random_forest_model"
)
```

E.
```
predict = mlflow.pyfunc.spark_udf(
    spark,
    f"runs:/{run_id}/random_forest_model"
)
```

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: E

QUESTION 8

Which of the following is a probable response to identifying drift in a machine learning application?

A. None of these responses

B. Retraining and deploying a model on more recent data

C. All of these responses

D. Rebuilding the machine learning application with a new label variable

E. Sunsetting the machine learning application

Correct Answer: B

QUESTION 9

Which of the following deployment paradigms can centrally compute predictions for a single record with exceedingly fast results?

A. Streaming

B. Batch

C. Edge/on-device

D. None of these strategies will accomplish the task.

E. Real-time

Correct Answer: E

QUESTION 10

A machine learning engineer has created a webhook with the following code block:

```
job_json = {
    "model_name": model,
    "events": ["MODEL_VERSION_TRANSITIONED_TO_STAGING"],
    "description": "Job webhook trigger",
    "status": "Active",
    "job_spec": {
        "job_id": job_id,
        "workspace_url": url,
        "access_token": token
    }
}

response = http_request(
    host_creds=host_creds,
    endpoint=endpoint,
    method="POST",
    json=job_json
)
```

Which of the following code blocks will trigger this webhook to run the associate job?

A.
```
client.transition_model_version_stage(
    name=new_model,
    version=model_version,
    from="None",
    to="Staging"
)
```

B.
```
client.transition_model_version_stage(
    name=new_model,
    version=model_version,
    stage="Staging"
)
```

C.
```
client.transition_model_version_stage(
    name=model,
    version=model_version,
    from="None",
    to="Staging"
)
```

D.
```
client.transition_model_stage(
    name=new_model,
    version=model_version,
    stage="Staging"
)
```

E.
```
client.transition_model_version_stage(
    name=model,
    version=model_version,
    stage="Staging"
)
```

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: E