**Mock Test 1 - Big Data Question no. 8**

**8.** Retrieve the names of all products that are currently out of stock from the "Products" table.

**Sol.**

from pyspark.sql import SparkSession

# Create SparkSession

spark = SparkSession.builder \

.appName("ProductQuery") \

.getOrCreate()

# Assuming you already have a DataFrame named "products" containing the "Products" table

# Register the DataFrame as a temporary view

products.createOrReplaceTempView("Products")

# Execute the SQL query

query = """

SELECT product\_name

FROM Products

WHERE stock\_quantity = 0

"""

result = spark.sql(query)

# Show the result

result.show()

# Stop the SparkSession

spark.stop()