**Mock Test 1 - Big Data Question no. 7**

**7.** Find the total number of orders placed by each customer and display the results in descending order of the number of orders.

**Sol.**

from pyspark.sql import SparkSession

from pyspark.sql.functions import col, count

spark = SparkSession.builder \

.appName("OrderCountByCustomer") \

.getOrCreate()

# Assuming you already have a DataFrame named "orders" containing the "Orders" table

# Group orders by customer and count the number of orders

order\_count\_df = orders.groupBy("customer\_id") \

.agg(count("\*").alias("order\_count")) \

.orderBy(col("order\_count").desc())

# Show the result

order\_count\_df.show()

# Stop the SparkSession

spark.stop()