Q5. from pyspark.sql import SparkSession

from pyspark.sql.functions import col, hour

logs = spark.table("logs")

logs\_with\_hour = logs.withColumn("hour", hour(col("timestamp")))

event\_counts\_by\_hour = logs\_with\_hour.groupBy("hour").count()

sorted\_event\_counts = event\_counts\_by\_hour.orderBy("hour")

sorted\_event\_counts.show()