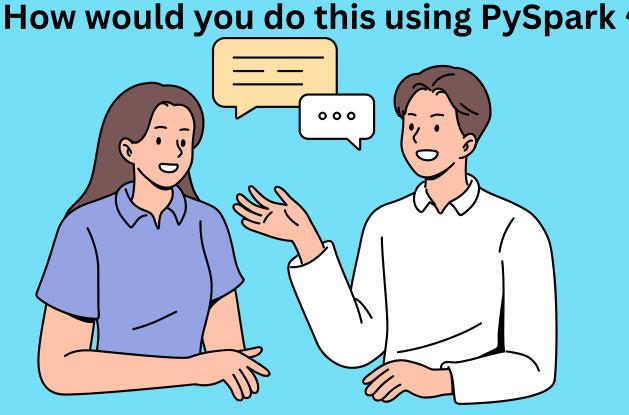
## **PySpark Interview**

## Interviewer:

You have a dataset containing customer orders, and you need to find the most frequently ordered item.



#### Sample Data:

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#### **Solution:**

```
• • •
from pyspark.sql import SparkSession
from pyspark.sql.functions import col, count
spark = SparkSession.builder.appName("MostFrequentItem").getOrCreate()
data = [
    (1, "Rahul Sharma", "Biryani", 2), (2, "Priya Verma", "Paneer Tikka", 1),
    (3, "Amit Singh", "Biryani", 1), (4, "Neha Gupta", "Chole Bhature", 3),
    (5, "Rohan Das", "Biryani", 2), (6, "Ananya Rao", "Paneer Tikka", 2),
    (7, "Suresh Kumar", "Masala Dosa", 1), (8, "Kavita Joshi", "Biryani", 1)
columns = ["order_id", "customer_name", "item", "quantity"]
orders_df = spark.createDataFrame(data, columns)
most_frequent_item = (
    orders_df.groupBy("item")
    .agg(count("*").alias("count"))
    .orderBy(col("count").desc())
    .limit(1) # Get only the top item
most_frequent_item.show()
```

### **Output:**

```
+-----+
|item | count |
+-----+
|Biryani | 4 |
+-----+
```

## **Explanation:**

- 1. We group the data by item to count occurrences.
- 2. We sort in descending order to get the most frequent item.
- 3. We use .limit(1) to return only the top result.

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