#### **ASSIGNMENT 8**

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PS: Filter rows and columns of a Spark Data Frame

#### **CODE & OUTPUT:**

### 1) Step 1: Set up SparkSession

First, start by importing the necessary libraries and creating a SparkSession.

Sudo su->pyspark

## >>> from pyspark.sql import SparkSession

```
>>> spark = SparkSession.builder.appName("FilterEXample").getOrCreate()
24/11/14 10:00:52 WARN SparkSession: Using an existing Spark session; only runti
me SQL configurations will take effect.
```

#### 2) Step 2: Create a DataFrame

# 3) Step 3: Filter Rows

To filter rows, use the filter method (or where as an alternative):

### 4) Step 4: Select Columns

To select specific columns, use the select method:

```
>>> selected_df=df.select("Name","Occupation")
>>> selected_df.show()
+----+
| Name| Occupation|
+----+
|Alice| Data Scientist|
| Bob|Software Engineer|
|Cathy| Analyst|
|David| Data Scientist|
+----+
```

## 5) Step 5: Combine Row and Column Filtering

You can combine both row filtering and column selection as follows: