```python
In [1]:  from pyspark.sql import SparkSession
         spark=SparkSession.builder.appName('Dataframe').getOrCreate()
```

```python
In [2]:  spark
```

Out[2]: **SparkSession - in-memory**

SparkContext

[Spark UI (http://Arnak:4041)](http://Arnak:4041)

Version
 v3.5.1
Master
 local[*]
AppName
 Dataframe

```python
In [3]:  master2=spark.read.csv(r"D:\NIT\FEBRUARY\26 feb (time series and spark)\sample
```

```python
In [4]:  master2.show()
```

```
+--------+---+----------+------+
|    Name|age|Experience|Salary|
+--------+---+----------+------+
|    jack| 31|        10| 30000|
|    alex| 30|         8| 25000|
|caroline| 29|         4| 20000|
|    paul| 24|         3| 20000|
|  sandra| 21|         1| 15000|
|casandra| 23|         2| 18000|
+--------+---+----------+------+
```

```python
In [6]:  master2.filter("Salary<=20000").show()
```

```
+--------+---+----------+------+
|    Name|age|Experience|Salary|
+--------+---+----------+------+
|caroline| 29|         4| 20000|
|    paul| 24|         3| 20000|
|  sandra| 21|         1| 15000|
|casandra| 23|         2| 18000|
+--------+---+----------+------+
```

```
In [7]: master2.filter("Salary<=20000").select(['Name','age']).show()
```

```
+--------+---+
|    Name|age|
+--------+---+
|caroline| 29|
|    paul| 24|
|  sandra| 21|
|casandra| 23|
+--------+---+
```

```
In [8]: master2.filter(master2['Salary']<=20000).show()
```

```
+--------+---+----------+------+
|    Name|age|Experience|Salary|
+--------+---+----------+------+
|caroline| 29|         4| 20000|
|    paul| 24|         3| 20000|
|  sandra| 21|         1| 15000|
|casandra| 23|         2| 18000|
+--------+---+----------+------+
```

```
In [9]: master2.filter((master2['Salary']<=20000) |
                        (master2['Salary']>=15000)).show()
```

```
+--------+---+----------+------+
|    Name|age|Experience|Salary|
+--------+---+----------+------+
|    jack| 31|        10| 30000|
|    alex| 30|         8| 25000|
|caroline| 29|         4| 20000|
|    paul| 24|         3| 20000|
|  sandra| 21|         1| 15000|
|casandra| 23|         2| 18000|
+--------+---+----------+------+
```

```
In [10]: master2.filter((master2['Salary']<=20000) &
                         (master2['Salary']>=15000)).show()
```

```
+--------+---+----------+------+
|    Name|age|Experience|Salary|
+--------+---+----------+------+
|caroline| 29|         4| 20000|
|    paul| 24|         3| 20000|
|  sandra| 21|         1| 15000|
|casandra| 23|         2| 18000|
+--------+---+----------+------+
```

```
master2.filter(~(master2['Salary']<=20000)).show()
```

```
+----+---+----------+------+
|Name|age|Experience|Salary|
+----+---+----------+------+
|jack| 31|        10| 30000|
|alex| 30|         8| 25000|
+----+---+----------+------+
```