1. It is used to rotate data of one column into multiple columns.
2. It is an aggregation where one of the grouping columns value will be converted to individual columns.

**Example-1**

from pyspark.sql import \*  
from pyspark.sql.functions import \*  
  
spark = SparkSession.builder.appName('pivot()').getOrCreate()  
  
myData = [(1,'Harsha','male',2000,'IT'),  
 (2,'Mokshita','female',3000,'HR'),  
 (3, 'Harika', 'female', 3500, 'IT'),  
 (4, 'Kiran', 'male', 4000, 'HR'),  
 (5, 'venkat', 'male', 5000, 'IT'),  
 (6, 'Rama', 'female', 4500, 'IT')  
 ]  
  
mySchema = ['id','name','gender','salary','dept']  
  
df = spark.createDataFrame(myData,mySchema)  
  
df.groupBy('dept','gender').count().show()  
  
df.groupBy('dept').pivot('gender').count().show()

**Output:**

+----+------+-----+

|dept|gender|count|

+----+------+-----+

| IT| male| 2|

| HR|female| 1|

| IT|female| 2|

| HR| male| 1|

+----+------+-----+

+----+------+----+

|dept|female|male|

+----+------+----+

| HR| 1| 1|

| IT| 2| 2|

+----+------+----+

**Example-2**

from pyspark.sql import SparkSession  
from pyspark.sql.functions import \*  
  
*# Create a Spark session*spark = SparkSession.builder.appName("PivotExample").getOrCreate()  
  
*# Sample data*data = [  
 ("Harsha", "2019-01-01", 100),  
 ("Harika", "2019-01-01", 150),  
 ("Harsha", "2019-02-01", 200),  
 ("Harika", "2019-02-01", 250)  
]  
  
*# Create a DataFrame*df = spark.createDataFrame(data, ["Name", "Date", "Amount"])  
  
*# Pivot the DataFrame*pivot\_df = df.groupBy("Name").pivot("Date").sum("Amount")  
  
pivot\_df.show()

**Output:**

+------+----------+----------+

| Name|2019-01-01|2019-02-01|

+------+----------+----------+

|Harika| 150| 250|

|Harsha| 100| 200|

+------+----------+----------+