Spark Versi Maste AppN	v3.1.2 local[*]
pdf	F=spark.read.option("header","true").csv('D:\items.csv',inferSchema=True) f.show()
Ite	em Id Item Name Item Cost Supplier Grade Qty +
	om pyspark.sql.functions import col f1=pdf.select(col('Item Id').alias('ItemId'),
	<pre>col('Item Name').alias('ItemName'),</pre>
	emId ItemName ItemCost
root	- ItemId: integer (nullable = true)
	- ItemName: string (nullable = true) - ItemCost: double (nullable = true) - head(2)
Pdf	w(Item Id=4, Item Name='Chock', Item Cost=65.76, Supplier='X', Grade='A', Qty=34), w(Item Id=5, Item Name='Pencil', Item Cost=45.65, Supplier='Y', Grade='B', Qty=None)] f.limit(3).toPandas() tem Id Item Name Item Cost Supplier Grade Qty
0 1 2	4 Chock 65.76 X A 34.0 5 Pencil 45.65 Y B NaN 6 Pen 76.87 X A 23.0
root 	- Item Id: integer (nullable = true) - Item Name: string (nullable = true)
 	- Item Cost: double (nullable = true) - Supplier: string (nullable = true) - Grade: string (nullable = true) - Qty: integer (nullable = true)
pdf	Temporary view f1.createOrReplaceTempView("tempview") sult=spark.sql("select * from tempview").limit(3).toPandas()
	temld temName temCost
	5 Pencil 45.65 6 Pen 76.87 s=spark.sql("select * from tempview where ItemName == 'Pen'")
+ Ite +	S.show()+
pdf pdf	f=spark.read.option("header","true").csv('D:\items.csv',inferSchema= True) f.show()
Ite	+++++++ em Id Item Name Item Cost Supplier Grade Qty +
 +	8 null null Z null 34 9 book 53.0 null null 65 7 Duster 54.0 Y C 25 8 null null Z null 34
res	f.createOrReplaceTempView("tempview") sult=spark.sql("select * from tempview").limit(3).toPandas() sult
	tem Id
2 # A	6 Pen 76.87 X A 23.0 Assignment
pdf pdf pdf	f1=spark.read.option("header","true").csv('D:\items.csv',inferSchema=True) f1.show() f2=spark.read.option("header","true").csv('D:\Supplier.csv',inferSchema=True) f2.show()
+ +	emId ItemName ItemCost ItemQty SupplierId
 +	X A Y B Z C +
# 1 res	f1.createOrReplaceTempView("tempview1") f2.createOrReplaceTempView("tempview2") 1.Show item details supplied by MR.X s=spark.sql("select * from tempview1 where SupplierId == 'X'")
	temld temName temCost temQty SupplierId
pdf pdf res	2.Show supplier details who has supplied items cost>1000 f=pdf1.join(pdf2,pdf1.SupplierId==pdf2.SupplierId,'inner') f.createOrReplaceTempView("tempview") s=spark.sql("select * from tempview where ItemCost > 50")
	temid ItemName ItemCost ItemQty SupplierId SupplierId Grade 4 Chock 65.76 23 X X A 6 Pen 76.87 32 X X A
2 # 3 pdf	7 Duster 54.00 10 Z Z C 3. show all item details whos supplier details are not available f=pdf1.join(pdf2,pdf1.SupplierId==pdf2.SupplierId, 'leftanti')
	temld ItemName ItemCost ItemQty SupplierId 9 book 53.0 25 None
pdf pdf	A.show item details whose supplier details are available f=pdf1.join(pdf2,pdf1.SupplierId==pdf2.SupplierId,'leftsemi') f.toPandas() temId ItemName ItemCost ItemQty SupplierId
0 1 2 3	4 Chock 65.76 23 X 5 Pencil 45.65 34 Y 6 Pen 76.87 32 X 7 Duster 54.00 10 Z
4 # 5 # a	8 None 23.00 45 Y 5. show item details along with supplier details for such items ,for which supplier details are available and item name starts with 'b'
res	s=spark.sql("select * from tempview where ItemName LIKE 'P%'") s.toPandas() temId ItemName ItemCost ItemQty SupplierId SupplierId Grade 5 Pencil 45.65 34 Y Y B
pdf	6 Pen 76.87 32 X X A 6. Show supplier wise number of items supplied, sum ,min ,max total of itemcost . all item cost supplied f=spark.sql("select min(ItemCost), max(ItemCost), sum(ItemCost) from tempview") f.show()
+ min +	+
# 7 pdf	7.join overall items available in 2 stores f=pdf1.join(pdf2,pdf1.SupplierId==pdf2.SupplierId,'inner') f.toPandas()
0	temId ItemCost ItemQty SupplierId Grade 4 Chock 65.76 23 X X A 5 Pencil 45.65 34 Y Y B 6 Pen 76.87 32 X X A
2 3 4 5	6 Pen 76.87 32 X X A 7 Duster 54.00 10 Z Z C 8 None 23.00 45 Y Y B 9 book 53.00 25 Z Z C