In [1]:	<pre>from pyspark.sql import SparkSession spark=SparkSession.builder.appName("DfApp").getOrCreate()</pre>
In [2]:	pdf.show() First Name Gender Start Date Last Login Time Salary Bonus % Senior Management Team
In [6]:	First Name: string (nullable = true) Gender: string (nullable = true) Start Date: string (nullable = true) Last Login Time: string (nullable = true) Salary: integer (nullable = true) Bonus %: double (nullable = true) Senior Management: boolean (nullable = true) Team: string (nullable = true) Team: string (nullable = true)
In [7]:	<pre>pdf1=pdf.select(col('First Name').alias('FirstName'),</pre>
In [8]:	FirstName
In [9]:	spark.sql("select * from tempview ").toPandas() FirstName Gen StartDate LastLoginTime Salay BonusPer SM Team 0 Douglas Male 8/6/1993 12:42 PM 97308.0 6.945 True Marketing 1 Thomas Male 3/31/1996 6:53 AM 61933.0 4.170 True None 2 Maria Female 4/23/1993 11:17 AM NaN 11.858 False Finance 3 Jerry Male 3/4/2005 1:00 PM 138705.0 NaN True Finance 4 Larry Male 1/24/1998 4:47 PM NaN 1.389 True Client Services
In [10]: Out[10]:	Team
	Team sum(Salary) Team Sum(Salary)
In [85]:	Product 8423223 ++ pdf1.printSchema() root FirstName: string (nullable = true) Gen: string (nullable = true) StartDate: string (nullable = true) LastLoginTime: string (nullable = true) Salary: integer (nullable = true) BonusPer: double (nullable = true)
In [24]:	SM: boolean (nullable = true) Team: string (nullable = true)
In [38]:	Douglas Marketing 97308 6.945 Thomas null 61933 4.17 Maria Finance null 11.858 Jerry Finance 138705 null Larry Client Services null 1.389
In [26]:	FirstName
In [56]:	pyspark.ml.feature.SQLTransformer pdf1.withColumn("Gen",expr("CASE WHEN Gen='Male' THEN 'M'"+
	pdf1.select('FirstName', 'Salary', 'BonusPer', expr('round(BonusPer,1) as roundedup')).show() FirstName Salary [BonusPer roundedup
	pdf1.selectExpr("FirstName", "round(BonusPer, 2)").filter('FirstName=="Jerry"').toPandas() FirstName round(BonusPer, 2) 1 Jerry NaN 2 Jerry 9.18 3 Jerry 9.18 4 Jerry 11.39 5 Jerry 18.86
In [28]:	pdf=spark.read.option("header","true").csv('D:\items.csv',inferSchema=True) pdf.show() +++
In [50]:	pdf.printSchema() root ItemId: integer (nullable = true) ItemCost: double (nullable = true) ItemQty: integer (nullable = true) ItemQty: integer (nullable = true) SupplierId: string (nullable = true)
In [51]: In [52]: Out[52]:	pdf.createOrReplaceTempView('tempview') spark.sql("select * from tempview ").toPandas() temld temName temCost temQty SupplierId
	3 7 Duster 54.00 10 Z 4 8 None 23.00 45 Y 5 9 book 53.00 25 None From pyspark.ml.feature import SQLTransformer sqltrans=SQLTransformer(statement="select ItemName, ItemCost, ItemQty fromTHIS")
In [54]:	
In [36]:	sqltrans=sqLtransformer(statement="select max(Itemcost), min(Itemcost), sum(Itemcost) fromIHIS where ItemName='Duster'") sqltrans.transform(pdf).show() +
In [40]:	pdf.withColumn("Increment", expr("ItemCost+50")).show() ++
In [45]:	pdf.selectExpr('ItemName','ItemQty','ItemQty+100').show()
In [61]:	pdf.withColumn("ItemCost", expr("CASE WHEN ItemCost>60 THEN 'A'" +

In [64]:

In [67]:

In [80]:

Out[80]:

In []:

0

pdf.select('ItemName','ItemCost',expr('round(ItemCost,1) as roundedup')).show()

pdf.selectExpr("ItemName", "round(ItemCost,1)").filter('ItemName=="Pen"').toPandas()

+----+ |ItemId|ItemName|ItemCost|ItemQty|SupplierId|

+-----+ |ItemName|ItemCost|roundedup|

| Chock| 65.76| 65.8| | Pencil| 45.65| 45.7|

Pen| | |Duster

null| book|

Pen

76.87 54.0

23.0|

53.0|

ItemName round(ItemCost, 1)

 4| Chock|
 A|
 23|
 X|

 5| Pencil|
 C|
 34|
 Y|

 6| Pen|
 A|
 32|
 X|

 7| Duster|
 B|
 10|
 Z|

 8| null|
 C|
 45|
 Y|

 9| book|
 B|
 25|
 null|

76.9|

54.0|

23.0|

53.0|

76.9