pd.read_csv('/content/train.csv')

```
Preparing metadata (setup.py) ... done
Requirement already satisfied: py4j==0.10.9.7 in /usr/local/lib/python3.10/dist-packages (from pyspark) (0.10.9.7)
Building wheels for collected packages: pyspark
Building wheel for pyspark (setup.py) ... done
Created wheel for pyspark (setup.py) ... done
Created wheel for pyspark (silename=pyspark-3.5.1-py2.py3-none-any.whl size=317488491 sha256=0ecd3a7f411dd552d024c6e4b27dcd2797486659d
Stored in directory: /root/.cache/pip/wheels/80/1d/60/2c256ed38dddce2fdd93be545214a63e02fbd8d74fb0b7f3a6
Successfully built pyspark
Installing collected packages: pyspark
Successfully installed pyspark-3.5.1
```

\supseteq

	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State	Postal Code	Region	Produ
0	1	CA- 2017- 152156	08/11/2017	11/11/2017	Second Class	CG- 12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420.0	South	FUR-E 10001
1	2	CA- 2017- 152156	08/11/2017	11/11/2017	Second Class	CG- 12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420.0	South	FUR-(100004
2	3	CA- 2017- 138688	12/06/2017	16/06/2017	Second Class	DV- 13045	Darrin Van Huff	Corporate	United States	Los Angeles	California	90036.0	West	OFF- 100002
3	4	US- 2016- 108966	11/10/2016	18/10/2016	Standard Class	SO- 20335	Sean O'Donnell	Consumer	United States	Fort Lauderda l e	Florida	33311.0	South	FUR- 10000!
4	5	US- 2016- 108966	11/10/2016	18/10/2016	Standard Class	SO- 20335	Sean O'Donnell	Consumer	United States	Fort Lauderda l e	Florida	33311.0	South	OFF- 100001
														- 1
9795	9796	CA- 2017- 125920	21/05/2017	28/05/2017	Standard Class	SH- 19975	Sally Hughsby	Corporate	United States	Chicago	Illinois	60610.0	Central	OFF- 100034
9796	9797	CA- 2016- 128608	12/01/2016	17/01/2016	Standard Class	CS- 12490	Cindy Schnelling	Corporate	United States	Toledo	Ohio	43615.0	East	OFF-/ 10001:
9797	9798	CA- 2016- 128608	12/01/2016	17/01/2016	Standard Class	CS- 12490	Cindy Schnelling	Corporate	United States	Toledo	Ohio	43615.0	East	TEC-F 100049
9798	9799	CA- 2016- 128608	12/01/2016	17/01/2016	Standard Class	CS- 12490	Cindy Schnelling	Corporate	United States	Toledo	Ohio	43615.0	East	TEC-F 100009
9799	9800	CA- 2016- 128608	12/01/2016	17/01/2016	Standard Class	CS- 12490	Cindy Schnelling	Corporate	United States	Toledo	Ohio	43615.0	East	TEC-/ 100004
9800 rd	ows × 18	8 columns												•
4														>

from pyspark.sql import SparkSession

spark=SparkSession.builder.appName('Practice').getOrCreate()

spark

SparkSession - in-memory SparkContext

Spark UI

Version
v3.5.1
Master
local[*]
AppName
Practice

df_pyspark=spark.read.csv('/content/train.csv')

```
Pyspark.ipynb - Colaboratory
df_pyspark=spark.read.option('header','true').csv('/content/train.csv',inferSchema=True)
df_pyspark.printSchema()
      |-- Row ID: integer (nullable = true)
       -- Order ID: string (nullable = true)
      |-- Order Date: string (nullable = true)
      |-- Ship Date: string (nullable = true)
       -- Ship Mode: string (nullable = true)
      -- Customer ID: string (nullable = true)
       -- Customer Name: string (nullable = true)
       -- Segment: string (nullable = true)
      -- Country: string (nullable = true)
       -- City: string (nullable = true)
       -- State: string (nullable = true)
      -- Postal Code: integer (nullable = true)
       -- Region: string (nullable = true)
       -- Product ID: string (nullable = true)
      -- Category: string (nullable = true)
       -- Sub-Category: string (nullable = true)
       -- Product Name: string (nullable = true)
      |-- Sales: string (nullable = true)
df_pyspark=spark.read.csv('/content/train.csv' , header=True,inferSchema=True)
df pvspark.show()
     |Row ID| Order ID|Order Date| Ship Date| Ship Mode|Customer ID| Customer Name| Segment| Country|
                                                                  CG-12520
           1 CA-2017-152156 08/11/2017 11/11/2017 Second Class
                                                                                  Claire Gute | Consumer United States
                                                                                                                             Henderson
           2 CA-2017-152156 08/11/2017 11/11/2017 Second Class
                                                                  CG-12520
                                                                                  Claire Gute
                                                                                                 Consumer United States
                                                                                                                             Henderson
           3 CA-2017-138688 12/06/2017 16/06/2017 Second Class
                                                                  DV-13045
                                                                            Darrin Van Huff | Corporate | United States |
                                                                                                                           Los Angeles
           4 US-2016-108966 11/10/2016 18/10/2016 Standard Class
                                                                  SO-20335
                                                                              Sean O'Donnell
                                                                                                Consumer United States Fort Lauderdale
                                                                                                 Consumer | United States | Fort Lauderdale |
           5 US-2016-108966 11/10/2016 18/10/2016 Standard Class
                                                                  SO-20335
                                                                               Sean O'Donnell
           6 CA-2015-115812 09/06/2015 14/06/2015 Standard Class
                                                                  BH-11710
                                                                              Brosina Hoffman
                                                                                                 Consumer United States
                                                                                                                           Los Angeles
           7 CA-2015-115812 09/06/2015 14/06/2015 Standard Class
                                                                  BH-11710
                                                                              Brosina Hoffman
                                                                                                 Consumer United States
                                                                                                                           Los Angeles
           8 CA-2015-115812 09/06/2015 14/06/2015 Standard Class
                                                                              Brosina Hoffmanl
                                                                                                 Consumer | United States |
                                                                  BH-11710
                                                                                                                           Los Angeles
           9 CA-2015-115812 09/06/2015 14/06/2015 Standard Class
                                                                  BH-11710
                                                                              Brosina Hoffman
                                                                                                 Consumer United States
                                                                                                                           Los Angeles
          10 CA-2015-115812 09/06/2015 14/06/2015 Standard Class
                                                                  BH-11710
                                                                              Brosina Hoffman
                                                                                                 Consumer United States
                                                                                                                           Los Angeles
                                                                                                                           Los Angeles
         11 CA-2015-115812 09/06/2015 14/06/2015 Standard Class
                                                                              Brosina Hoffman
                                                                                                 Consumer United States
                                                                  BH-11710
                                                                              Brosina Hoffman
         12 CA-2015-115812 09/06/2015 14/06/2015 Standard Class
                                                                  BH-11710
                                                                                                 Consumer United States
                                                                                                                           Los Angeles
         13 CA-2018-114412 15/04/2018 20/04/2018 Standard Class
                                                                                 Andrew Allen
                                                                                                 Consumer | United States |
                                                                                                                               Concord Nor
                                                                  AA-10480
         14 CA-2017-161389 05/12/2017 10/12/2017 Standard Class
                                                                  IM-15070
                                                                                 Irene Maddox
                                                                                                 Consumer United States
                                                                                                                               Seattle
         15 US-2016-118983 22/11/2016 26/11/2016 Standard Class
                                                                                                                            Fort Worth
                                                                  HP-14815
                                                                                Harold Pawlan Home Office United States
         16 US-2016-118983 22/11/2016 26/11/2016 Standard Class
                                                                  HP-14815
                                                                                Harold Pawlan Home Office United States
                                                                                                                            Fort Worth
          17 CA-2015-105893 11/11/2015 18/11/2015 Standard Class
                                                                  PK-19075
                                                                                    Pete Kriz
                                                                                                 Consumer United States
                                                                                                                              Madison
         18 CA-2015-167164 13/05/2015 15/05/2015 Second Class
                                                                  AG-10270
                                                                                                 Consumer United States
                                                                             Aleiandro Grove
                                                                                                                           West Jordan
         19 CA-2015-143336 27/08/2015 01/09/2015 Second Class
                                                                  ZD-21925 Zuschuss Donatelli
                                                                                                 Consumer | United States |
                                                                                                                         San Francisco
          20 CA-2015-143336 27/08/2015 01/09/2015 Second Class
                                                                                                 Consumer United States | San Francisco
                                                                  ZD-21925 Zuschuss Donatelli
     only showing top 20 rows
type(df_pyspark)
      pyspark.sql.dataframe.DataFrame
      def init (jdf: JavaObject, sql ctx: Union['SQLContext', 'SparkSession'])
      A distributed collection of data grouped into named columns.
       .. versionadded:: 1.3.0
       .. versionchanged:: 3.4.0
          Supports Spark Connect.
df_pyspark.columns
     ['Row ID'
       Order ID',
```

```
https://colab.research.google.com/drive/1ZZ1gI0WRiL7PPqUEK4uVYOD3L_v00MtE
```

'Order Date' 'Ship Date', 'Ship Mode' 'Customer ID' 'Customer Name', 'Segment'.

```
03/04/2024. 12:54
```

```
'Country',
'City',
'State',
'Postal Code',
'Region',
'Product ID',
'Category',
'Sub-Category',
'Product Name',
'Sales']
```

df_pyspark.show()

|Row ID| Order ID|Order Date| Ship Date| Ship Mode|Customer ID| Customer Name| Segment| Country| City| 1 CA-2017-152156 08/11/2017 11/11/2017 Second Class CG-12520 Claire Gute Consumer | United States | Henderson 2 CA-2017-152156 08/11/2017 11/11/2017 Second Class CG-12520 Claire Gute Consumer|United States| Henderson 3|CA-2017-138688|12/06/2017|16/06/2017| Second Class| DV-13045| Darrin Van Huff| Corporate|United States| Los Angeles| 4 US-2016-108966 11/10/2016 18/10/2016 Standard Class SO-20335 Sean O'Donnell Consumer | United States | Fort Lauderdale | 5 US-2016-108966 11/10/2016 18/10/2016 Standard Class SO-20335 Sean O'Donnell Consumer | United States | Fort Lauderdale | Brosina Hoffman Consumer United States 6 CA-2015-115812 09/06/2015 14/06/2015 Standard Class BH-11710 Los Angeles 7 CA-2015-115812 09/06/2015 14/06/2015 Standard Class BH-11710 Brosina Hoffman Consumer United States Los Angeles 8 CA-2015-115812 09/06/2015 14/06/2015 Standard Class BH-11710 Brosina Hoffman Consumer United States Los Angeles Brosina Hoffman 9 CA-2015-115812 09/06/2015 14/06/2015 Standard Class Consumer | United States | BH-11710 Los Angeles 10 CA-2015-115812 09/06/2015 14/06/2015 Standard Class BH-11710 Brosina Hoffman Consumer | United States | Los Angeles Los Angeles| 11 CA-2015-115812 09/06/2015 14/06/2015 Standard Class BH-11710 Brosina Hoffman Consumer United States 12 CA-2015-115812 09/06/2015 14/06/2015 Standard Class BH-11710 Brosina Hoffman Consumer | United States | Los Angeles 13 CA-2018-114412 15/04/2018 20/04/2018 Standard Class AA-10480 Andrew Allen Consumer United States Concord Nor 14 CA-2017-161389 05/12/2017 10/12/2017 Standard Class IM-15070 Irene Maddox Consumer United States Seattle 15 US-2016-118983 22/11/2016 26/11/2016 Standard Class HP-14815 Harold Pawlan Home Office United States Fort Worth 16|US-2016-118983|22/11/2016|26/11/2016|Standard Class| HP-14815 Harold Pawlan Home Office United States Fort Worth 17 CA-2015-105893 11/11/2015 18/11/2015 Standard Class PK-19075 Pete Kriz Consumer United States Madison 18 CA-2015-167164 13/05/2015 15/05/2015 Second Class 19 CA-2015-143336 27/08/2015 01/09/2015 Second Class AG-10270 Alejandro Grove Consumer United States West Jordan Consumer United States | San Francisco ZD-21925 Zuschuss Donatelli 20 CA-2015-143336 27/08/2015 01/09/2015 Second Class ZD-21925 | Zuschuss Donatelli | Consumer | United States | San Francisco |

only showing top 20 rows

df_pyspark.select(['Sales', 'Customer ID']).show()

```
| Sales|Customer ID|
  -----+
 261.96 | CG-12520|
  731.94
          CG-12520
  14.62 DV-13045
          SO-20335
SO-20335
957.5775
 22.368
  48.86 BH-11710
   7.28
          BH-11710
 907.152
          BH-11710
 18.504
           BH-11710
  114.9
           BH-11710|
1706.184
           BH-11710
 911.424
           BH-11710
  15.552
           AA-10480
 407.976
          IM-15070
   68.81
          HP-14815
   2.544
           HP-14815
  665.88
          PK-19075
           AG-10270
    55.5
    8.56
           ZD-21925
  213.48 ZD-21925
only showing top 20 rows
```

df_pyspark.dtypes

```
[('Row ID', 'int'),
  ('Order ID', 'string'),
  ('Order Date', 'string'),
  ('Ship Date', 'string'),
  ('Ship Mode', 'string'),
  ('Customer ID', 'string'),
  ('Customer Name', 'string'),
  ('Segment', 'string'),
  ('Country', 'string'),
```

```
('City', 'string'),
('State', 'string'),
('Postal Code', 'int'),
('Region', 'string'),
('Product ID', 'string'),
('Category', 'string'),
('Sub-Category', 'string'),
('Product Name', 'string'),
('Sales', 'string')]
```

df_pyspark.describe().show()

+	summary	Row ID	Order ID	+ Order Date	++ Ship Date	Ship Mode	++ Customer ID	Customer Name	Segment	Country
†	count					9800	!	9800	9800	9800
	mean	4900.5	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	stddev	2829.1606529145706	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	min	1	CA-2015-100006	01/01/2018	01/01/2016	First Class	AA-10315	Aaron Bergman	Consumer	United States
- [max	9800	US-2018-169551	31/12/2017	31/12/2018	Standard Class	ZD-21925	Zuschuss Donatelli	Home Office	United States
+			+	+	++		++	+	+	

df_pyspark.drop('Sales').show()

City	Country	(Segment	Customer Name	Customer ID	Mode	Ship	Date	Ship	Date	Order	der ID	Or	ow ID
Henderson	States	United	Consumer	Claire Gute	CG-12520	Class	Second	/2017	11/11	/2017	08/11	152156	CA-2017-	1
				Claire Gute	CG-12520	Class			, ,				CA-2017-	
Los Angeles	States	United	Corporate	Darrin Van Huff	DV-13045	Class	Second	/2017	16/06	/2017	12/06	138688	CA-2017-	3
Fort Lauderdale	States	United	Consumer	Sean O'Donnell	SO-20335	Class	Standard	/2016	18/10	/2016	11/10	108966	US-2016-	4
Fort Lauderdale		•		Sean O'Donnell		-	Standard						•	
Los Angeles	States	United	Consumer	Brosina Hoffman			Standard						•	
Los Angeles	States	United	Consumer	Brosina Hoffman			Standard						•	
Los Angeles	States	United	Consumer	Brosina Hoffman	BH-11710	Class	Standard	/2015	14/06	/2015	09/06	115812	CA-2015-	8
Los Angeles	States	United	Consumer	Brosina Hoffman	BH-11710	Class	Standard	/2015	14/06	/2015	09/06	115812	CA-2015-	9
Los Angeles	States	United	Consumer	Brosina Hoffman	BH-11710	Class	Standard	/2015	14/06	/2015	09/06	115812	CA-2015-	10
Los Angeles	States	United	Consumer	Brosina Hoffman	BH-11710	Class	Standard	/2015	14/06	/2015	09/06	115812	CA-2015-	11
Los Angeles	States	United	Consumer	Brosina Hoffman	BH-11710	Class	Standard	/2015	14/06	/2015	09/06	115812	CA-2015-	12
Concord	States	United	Consumer	Andrew Allen	AA-10480	Class	Standard	/2018	20/04	/2018	15/04	114412	CA-2018-	13
Seattle	States	United	Consumer	Irene Maddox	IM-15070	Class	Standard	/2017	10/12	/2017	05/12	161389	CA-2017-	14
Fort Worth	States	United	Home Office	Harold Pawlan	HP-14815	Class	Standard	/2016	26/11	/2016	22/11	118983	US-2016-	15
Fort Worth	States	United	Home Office	Harold Pawlan	HP-14815	Class	Standard	/2016	26/11	/2016	22/11	118983	US-2016-	16
Madison	States	United	Consumer	Pete Kriz	PK-19075	Class	Standard	/2015	18/11	/2015	11/11	105893	CA-2015-	17
West Jordan	States	United	Consumer	Alejandro Grove	AG-10270	Class	Second	/2015	15/05	/2015	13/05	167164	CA-2015-	18
San Francisco	States	United	Consumer	Zuschuss Donatelli	ZD-21925	Class	Second	2015	01/09	/2015	27/08	143336	CA-2015-	19
San Francisco	States	United	Consumer	Zuschuss Donatelli	ZD-21925	Class	Second	/2015	01/09	/2015	27/08	143336	CA-2015-	20

only showing top 20 rows

df_pyspark.na.drop().show()

ow ID	or	der ID	Ord	er I	Date	Ship	Date	Ship	Mode	Customer ID	Customer Name	Segment	(Country	City
1	CA-2017-:	L52156	08/	11/	2017	11/11	/2017	Second	Class	CG-12520	Claire Gute	Consumer	United	States	Henderson
2	CA-2017-	L52156	08/	11/	2017	11/11	/2017	Second	Class	CG-12520	Claire Gute	Consumer	United	States	Henderson
3	CA-2017-	L38688	12/	06/	2017	16/06	/2017	Second	Class	DV-13045	Darrin Van Huff	Corporate	United	States	Los Angeles
4	US-2016-	L08966	11/	10/	2016	18/10	/2016	Standard	Class	SO-20335	Sean O'Donnell	Consumer	United	States	Fort Lauderdale
5	US-2016-	L08966	11/	10/	2016	18/16	/2016	Standard	Class	SO-20335	Sean O'Donnell	Consumer	United	States	Fort Lauderdale
6	CA-2015-	L15812	09/	06/	2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles
7	CA-2015-	L15812	09/	06/	2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles
8	CA-2015-	L15812	09/	06/	2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles
9	CA-2015-	L15812	09/	06/	2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles
10	CA-2015-	L15812	09/	06/	2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles
11	CA-2015-	L15812	09/	06/	2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles
12	CA-2015-	L15812	09/	06/	2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles
13	CA-2018-	L14412	15/	04/	2018	20/04	/2018	Standard	Class	AA-10480	Andrew Allen	Consumer	United	States	Concord
14	CA-2017-	L61389	05/	12/	2017	10/12	/2017	Standard	Class	IM-15070	Irene Maddox	Consumer	United	States	Seattle
15	US-2016-	L18983	22/	11/	2016	26/11	/2016	Standard	Class	HP-14815	Harold Pawlan	Home Office	United	States	Fort Worth
16	US-2016-	L18983	22/	11/	2016	26/11	/2016	Standard	Class	HP-14815	Harold Pawlan	Home Office	United	States	Fort Worth
17	CA-2015-	L05893	11/	11/	2015	18/11	/2015	Standard	Class	PK-19075	Pete Kriz	Consumer	United	States	Madison
18	CA-2015-	L67164	13/	05/	2015	15/05	/2015	Second	Class	AG-10270	Alejandro Grove	Consumer	United	States	West Jordan
19	CA-2015-	L43336	27/	08/	2015	01/09	/2015	Second	Class	ZD-21925	Zuschuss Donatelli	Consumer	United	States	San Francisco
20	CA-2015-	L43336	27/	08/	2015 İ	01/09	/2015	Second	Class	ZD-21925	Zuschuss Donatelli	Consumer	United	States	San Francisco

only showing top 20 rows

df_pyspark.filter("Sales=0").show()

Row ID	+ Order	ID Orde	r Date	+ Ship Da	te Ship Mode	Customer ID	+ Customer	Name	Segment	 (Country	++ City	
	US-2015-1527					HG-14965	,	- 1					
2762	CA-2018-1265	36 12/1	0/2018	14/10/20	<pre>L8 First Class</pre>	NK-18490	Neil Knu	udson	Home Office	United	States	San Francisco	Calif
4102	US-2018-1022	88 19/0	6/2018	23/06/20	L8 Standard Class	ZC-21910	Zuschuss Car	rroll	Consumer	United	States	Houston	
4712	CA-2015-1124	03 31/0	3/2015	31/03/20	L5 Same Day	JO-15280	Jas O'Car	rroll	Consumer	United	States	Philadelphia	Pennsyl
7549	CA-2015-1034	92 10/1	0/2015	15/10/20	L5 Standard Class	CM-12715	Craig Moli	inari	Corporate	United	States	Huntsville	
8034	CA-2016-1196	90 25/0	6/2016	28/06/20	l6 First Class	MV-17485	Mark Van	Huff	Consumer	United	States	Houston	
8659	CA-2017-1683	61 21/0	6/2017	25/06/20	17 Standard Class	KB-16600	Ken Bre	ennan	Corporate	United	States	Chicago	I11
9293	CA-2018-1241	14 02/0	3/2018	02/03/20	L8 Same Day	RS-19765	Roland Sch	nwarz	Corporate	United	States	Waco	
+	+	+		+	+	+	+	+				++	

df_pyspark.filter("Sales>=200").select(['Customer ID', 'Customer Name','Sales']).show()

+	+	++
Customer ID	Customer Name	Sales
+	+	++
CG-12520	Claire Gute	261.96
CG-12520	Claire Gute	731.94
S0-20335	Sean O'Donnell	957.5775
BH-11710	Brosina Hoffman	907.152
BH-11710	Brosina Hoffman	1706.184
BH-11710	Brosina Hoffman	911.424
IM-15070	Irene Maddox	407.976
PK-19075	Pete Kriz	665.88
ZD-21925	Zuschuss Donatelli	213.48
EB-13870	Emily Burns	1044.63
TB-21520	Tracy Blumstein	3083.43
GH-14485	Gene Hale	1097.544
SN-20710	Steve Nguyen	532.3992
SN-20710	Steve Nguyen	212.058
SN-20710	Steve Nguyen	371.168
PO-18865	Patrick O'Donnell	211.96
JM-15265	Janet Molinari	1029.95
TB-21055	Ted Butterfield	208.56
TB-21055	Ted Butterfield	319.41
PS-18970	Paul Stevenson	213.115
+	+	++

only showing top 20 rows

##Groupby

Counting the number of the customers from the different states

df_pyspark.groupby('State').count().show(99)

	+ count
	+
Utah	53
Minnesota	89
Ohio	454
Oregon	122
Arkansas	60
Texas	973
North Dakota	7
Pennsylvania	582
Connecticut	82
Nebraska	38
Vermont	11
Nevada	39
Washington	504
Illinois	483
Oklahoma	
District of Columbia	10
Delaware	93
New Mexico	37
West Virginia	4
Missouri	
Rhode Island	55

```
Georgia | 177|
      Montana
               15 l
     Michigan | 253
     Virginia
               224
North Carolina 247
      Wyoming
                1|
       Kansas
               24
   New Jersey 122
     Maryland 105
      Alabama
               61
      Arizona 223
        Iowa
               26 l
Massachusetts 135
     Kentucky 137
    Louisiana
               41
  Mississippi
               53
    Tennessee 183
New Hampshire
                27
      Florida 373
      Indiana | 135
        Idaho
               21
South Carolina 42
 South Dakota
              12
   California | 1946|
    New York 1097
    Wisconsin 105
Colorado 179
       Maine 8
```

Calulationg the total number of the Sales amount

Maxium amount of the sales

training = spark.read.csv('/content/train.csv', header=True,inferSchema=True)

training.show()

+			+		+				++		+			++-	
Row ID	Order	ID	Order	Date	Ship	Date	Shir	Mode	Customer ID	Customer Name	Segment	(Country	City	
1	CA-2017-152	156	08/11	/2017	 11/11	/2017	Second	Class	CG-12520	Claire Gute	Consumer	United	States	Henderson	
2	CA-2017-152	156	08/11	/2017	11/11	/2017	Second	Class	CG-12520	Claire Gute	Consumer	United	States	Henderson	
3	CA-2017-138	688	12/06	/2017	16/06	/2017	Second	Class	DV-13045	Darrin Van Huff	Corporate	United	States	Los Angeles	
4	US-2016-108	966	11/10	/2016	18/10	/2016	Standard	Class	SO-20335	Sean O'Donnell	Consumer	United	States	Fort Lauderdale	
5	US-2016-108	966	11/10	/2016	18/10	/2016	Standard	Class	SO-20335	Sean O'Donnell	Consumer	United	States	Fort Lauderdale	
6	CA-2015-115	812	09/06	/2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles	
7	CA-2015-115	812	09/06	/2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles	
8	CA-2015-115	812	09/06	/2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles	
9	CA-2015-115	812	09/06	/2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles	
10	CA-2015-115	812	09/06	/2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles	
11	CA-2015-115	812	09/06	/2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles	
12	CA-2015-115	812	09/06	/2015	14/06	/2015	Standard	Class	BH-11710	Brosina Hoffman	Consumer	United	States	Los Angeles	
13	CA-2018-114	412	15/04	/2018	20/04	/2018	Standard	Class	AA-10480	Andrew Allen	Consumer	United	States	Concord N	Vor
14	CA-2017-161	389	05/12	/2017	10/12	/2017	Standard	Class	IM-15070	Irene Maddox	Consumer	United	States	Seattle	
15	US-2016-118	983	22/11	/2016	26/11	/2016	Standard	Class	HP-14815	Harold Pawlan	Home Office	United	States	Fort Worth	
16	US-2016-118	983	22/11	/2016	26/11	/2016	Standard	Class	HP-14815	Harold Pawlan	Home Office	United	States	Fort Worth	
17	CA-2015-105	893	11/11	/2015	18/11	/2015	Standard	Class	PK-19075	Pete Kriz	Consumer	United	States	Madison	
18	CA-2015-167	164	13/05	/2015	15/05	/2015	Second	Class	AG-10270	Alejandro Grove	Consumer	United	States	West Jordan	