#### Problem Statement-I

Using the Sales.csv file, create a database called "salesdb". Create a table under that with the heading "sales". (Adjust the rows by looking at the csv file columns.)

#### Dataset

https://docs.google.com/spreadsheets/d/1A5qe2j0DkqwNM5sZ7qV44SyxjR2Woj1K-BZG573YjOc/edit?usp=sharing

Perform the following Queries using HiveQL.

## 1. Insert 5 records using the Insert command in HiveQL.

```
htve> select * from sale;

(1200 Visa Leonardo London England United Kingdon Product 1300 Mastercard Brasil Sydney America United States

Time taken: 0.637 seconds, Fatched: 2 rox(s) America United States

Time taken: 0.637 seconds, Fatched: 2 rox(s) America United States

Time taken: 0.637 seconds, Fatched: 2 rox(s) America United States

Time taken: 0.637 seconds, Fatched: 2 rox(s) America United States

| ViProduct: 2.1200, "Mastercard", "Carolina", "Basildon", "England", "United Kingdon"), 
| ViProduct: 2.1200, "Mastercard", "Carolina", "Basildon", "United States");
| ViProduct: 2.1200, "Mastercard States United States
| ViProduct: 2.1200, "Mastercard Brasil Sydney America United States
| Visa Leonardo London England United Kingdon Product 3000 Nastercard Carolina Basildon EnglandUnited Kingdon
| Visa Leonardo London England United Kingdon Product 3000 Nastercard Carolina Basildon EnglandUnited Kingdon
| Visa Leonardo London England United Kingdon Product 3000 Nastercard Carolina Basildon EnglandUnited Kingdon
| Visa Leonardo London England United Kingdon Product 3000 Nastercard Carolina Basildon EnglandUnited Kingdon
| Visa Leonardo London England United States
| Visa Leonardo London England United States
| Visa Leonardo London England United States
| Visa Leonardo Carolina Basildon EnglandUnited Kingdon Product 3 1200 Mastercard Carolina Basildon EnglandUnited Kingdon
| Visa Leonardo Carolina Basildon EnglandUnited Kingdon United States
```

### 2. Import the dataset from the sales.csv file.

```
hive> select * from sales;
Product1
                                                                                       Basildon
                                     Mastercard
                                                              corolina
                                                                                                               England United Kingdom
                                                                                                   United States
Astoria OR
Australia
                        1200
                                     Visa Betina
                                                             Parkville
                                                                                       MO
                                                             Federica e Andrea
Echuca Victoria
Cahaba Heights AL
                                                                                                                             United States
Product1
                        1200
                                     Mastercard
                                     Visa
Product1
                        1200
                                                Gouva
                                                 Gerd W
                         3600
Product2
                                                                                                   United States
                                                                                      Country
Basildon
Product NULL
                        Payme
                                  t_Type
                                                 Name
                                                             City State carolina
                                                                                                   n England United Kingdom
United States
Astoria OR United States
                        1200
Product1
                                     Mastercard
Product1
                        1200
                                     Visa
                                                Betina
                                                              Parkville
                                                             Federica e Andrea
Echuca Victoria
Cahaba Heights AL
Product1
                        1200
                                    Mastercard
Visa Gou
Product1
                        1200
                                                Gouya
Gerd W
                                                                                                   Australia
                        3600
                                     Visa
                                                                                                   United States
Product2
                                                                                                   NJ United States
United States
 roduct1
                        1200
                                     Visa
                                                 LAURENCE
                                                                         Mickleton
                                                              Fleur
                                                                        Peoria IL
Martin TN
Product1
                        1200
                                    Mastercard
                                     Mastercard
                                                                                                   United States
Product1
                        1200
                                                              adam
                                                             Addm Martin IN United
Renee Elisabeth Tel Aviv
Chatou Ile-de-France France
New York NY United
Eindhoven Noord-Brabant
                        1200
 roduct1
                                     Mastercard
Product1
                        1200
                                    Visa Aidan
Diners Stacy
                                                                                                  United States
rabant Netherlands
                        1200
Product1
Product1
                        1200
                                     Amex
                                                Heidi
                                                 ard Sean Shavano Park
Georgia Eagle ID Unite
Richard Riverside NJ
Product1
                        1200
                                    Mastercard
Visa Geo
                                                                                                  TX
                                                                                                                United States
                                                                                      United States
NJ United States
Product1
                        1200
                        1200
Product1
                                     Visa
 roduct1
                        1200
                                     Diners
                                                              Julianstown
                                                                                       Meath
                                   Visa Janet Ottawa Ontario Canada
Diners barbara Hyderabad Andhra Pradesh India
Visa Sabine London England United Kingdom
Diners Hani Salt Lake City UT United States
Visa Jeremy Manchester England United Kingdom
Diners Janis Ballynora Cork Ireland
Coulten South A
                        1200
1200
Product1
Product1
                        3600
Product1
                        1200
                        1200
Product1
Product1
                                                                                                    Gauteng South Africa
```

```
Product1
                                 Allison Edinburgh
                                                                          United Kingdom
Product1
                1200
                        Diners Phillip San Antonio
                                                         TX
                                                                 United States
Product1
                1200
                        Visa
                                 jingyan Bristol RI
                                                         United States
Product2
                3600
                                clara
                                         Perth
                        Diners
                                                 Western Australia
                                                                          Australia
                                         Selma
Product1
                1200
                        Mastercard
                                                 Greenville
                                                                          United States
                        Visa
                                                 Pls Vrds Est
Product1
                1200
                                                                          United States
                                 Doug and Tina
                                                                  CA
Product1
                1200
                        Visa
                                 Lauren Hradec Kralove East Bohemia
                                                                          Czech Republic
                        Visa
Product1
                                         Maidstone
                                                         England United Kingdom
                1200
                                 Jen
                                                         England United Kingdom
Product1
                                         Saint Albans
                1200
                        Visa
                                 gladys
Product1
                                         Gustavo Voluntari
                1200
                        Mastercard
                                                                  Bucuresti
                                                                                  Romania
Product1
                1200
                        Visa
                                 Erica
                                         Nadur
                                                         Malta
Product1
                1200
                        Diners
                                Hale
                                         Morrison
                                                         CO
                                                                  United States
Product1
                1200
                        Visa
                                 Rosemary
                                                 Cobham
                                                         England United Kingdom
Product1
                1200
                        Visa
                                 Darian Izmir
                                                 Izmir
                                                         Turkey
                                                                          United States
                                                 Hollywood
Product1
                1200
                        Mastercard
                                         Kevin
                                                                  CA
Product1
                1200
                        Visa
                                         Brighton
                                                         England United Kingdom
                                 Alyssa
                        Visa
                                 Hale
                                         Hawera Taranaki
Product1
                1200
                                                                  New Zealand
Product1
                1200
                        Mastercard
                                         KELI
                                                 Worongary
                                                                  Oueensland
                                                                                  Australia
Product1
                1200
                        Visa
                                 Glen
                                         Atlantida
                                                         Guatemala
                                                                          Guatemala
Product1
                1200
                        Visa
                                         El Escorial
                                                         Madrid Spain
                                christal
                                                 Morrison
Product1
                1200
                        Visa
                                                                  CO
                                                                          United States
                                                 Augusta GA
Product1
                1200
                                         Alex
                                                                  United States
                        Mastercard
                                                         New South Wales Australia
Product2
                3600
                        Mastercard
                                         Anke
                                                 Avalon
                3600
                                         TRICIA
                                                         New South Wales Australia
Product2
                        Mastercard
                                                 Sydney
Product1
                1200
                        Mastercard
                                         smith
                                                 Lahti
                                                         Etela-Suomen Laani
                                                                                  Finland
                                         Inner City
                                                         Vienna Austria
Product1
                        Visa
                                Macy
                1200
Product1
                1200
                                         Lesleigh
                                                         Baden
                                                                 Aargau Switzerland
                        Mastercard
                        Diners esther Huddersfield
                                                         England United Kingdom
Product2
                3600
                                                 Belfast Northern Ireland
Product1
                1200
                        Visa
                                 Hans-Joerg
                                                                                  United Kingdom
Product2
                        Visa
                                 Christiane
                                                 Black River
                                                                                  Mauritius
                3600
                                                                  Black River
Product3
                7500
                        Amex
                                 Pamela Skaneateles
                                                         NY
                                                                  United States
                                                         England United Kingdom
Product1
                1200
                        Diners
                                 julie
                                         Haverhill
                        Visa
                1200
                                        Madison WI
                                                         United States
Product1
                                 Julia
Time taken: 0.459 seconds, Fetched: 1004 row(s)
hive>
```

## 3. Count the number of sales done by each country.

```
hive> select country, count(*) from sales group by country;
Query ID = hadoop 20210603095702 e59ec429-04ce-4dcc-968d-4cc038c739ce
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2021-06-03 09:57:03,947 Stage-1 map = 100%, reduce = 100%
Ended Job = job local2099147186 0007
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 461732 HDFS Write: 230658 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
Argentina
Australia
                39
Austria 7
Bahrain 1
Belgium 8
Bermuda 1
Brazil 5
Bulgaria
                1
CO
        1
Canada 76
Cayman Isls
                1
China
Costa Rica
                1
Country 1
Czech Republic 3
Denmark 15
```

```
India 2
Ireland 49
Israel 1
Italy 15
Japan 2
Jersey 1
Kuwait 1
Latvia 1
Luxembourg
                         1
Malaysia
Malta 2
Mauritius
Moldova 1
                         1
                         1
Monaco 2
Netherlands
New Zealand
                         22
                         6
Norway 16
Philippines
Poland 2
                         2
Romania 1
Russia 1
South Africa
South Korea
Spain 12
Sweden 13
Switzerland
                         36
                         2 2
Thailand
The Bahamas
Turkey 6
Ukraine 1
United Arab Emirates
                                     6
United Kingdom 101
United States 465
Time taken: 1.708 seconds, Fetched: 58 row(s) hive> ■
```

## 4. Count the number of sales done by each state.

```
hive> select state, count(*) from sales group by state;
Query ID = hadoop_20210603100145_66743a90-7c6f-4ada-86f0-b00c9115fac4
Total jobs = 1
Launching Job 1 out of 1

Number of reduce tasks not specified. Estimated from input data size: 1

In order to change the average load for a reducer (in bytes):

set hive.exec.reducers.bytes.per.reducer=<number>

In order to limit the maximum number of reducers:
    set hive.exec.reducers.max=<number>
set htve.exec.reducers.max=<number>
In order to set a constant number of reducers:
    set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2021-06-03 10:01:47,783 Stage-1 map = 100%, reduce = 100%
Ended Job = job_local1010647135_0009
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 691916 HDFS Write: 230658 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
 AK
 AL
AR
AZ
                      10
Aargau 2
Abu Zaby
Al Manamah
 Alberta 18
 Alsace 1
 Andalucia
 Andhra Pradesh
                                            1
 Antwerpen
 Arhus
 Attiki 1
 Auckland
```

```
Tel Aviv
Thuringia
                 2
Ticino 2
Tipperary
Tokyo 2
                 2
Tokyo
Tuscany 4
Tyrol
Upper Normandy 1
Uppsala 1
Utrecht 1
VA
        30
VI
Vasterbotten
Vaud
        2
Veneto
Vestfold
Vestsjalland
Victoria
                 10
Vienna 4
Virginia
        14
WA
WI
Wales
Waterford
Western Australia
                          6
Westmeath
Wicklow 2
Yukon Territory 1
Zug 2
Zuid-Holland
Zurich 8
Time taken: 2.381 seconds, Fetched: 206 row(s)
hive>
```

## 5. Display (Product, name) grouped by product.

```
hive> select product, name from sale group by product,name
Query ID = hadoop_20210604041023_d7806142-66e7-4890-8ba0-3d69cd650a29
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2021-06-04 04:10:35,885 Stage-1 map = 0%, reduce = 0%
2021-06-04 04:10:39,919 Stage-1 map = 100%, reduce = 0%
2021-06-04 04:10:40,952 Stage-1 map = 100%, reduce = 100%
Ended Job = job_local1497378773_0001
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 115088 HDFS Write: 0 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
ABC
        Leonardo
Product Brasli
Product Name
Product1
Product1
                 AMY
Product1
                 Aaron
Product1
                 Abikay
Product1
                 Adam
Product1
                 Aidan
Product1
                 Aideen and Jonathan
Product1
                 Ailsa
Product1
                 Alan
Product1
                 Alessandra
Product1
                 Alex
Product1
                 Alexandria
Product1
                 Alexia
Product1
                 Alexis
Product1
                 Alfredo A
Product1
                 Alice
Product1
                 Alicia
Product1
                 Alicja
Product1
                 Alison
Product1
                 Allison
Product1
                 Alva and Martin
Product1
                 Alyssa
Product1
                 Amanda
Product1
                 Amy
```

# 6. Create separate views for VISA and Mastercard.

```
OK
Time taken: 0.385 seconds
htve=sect *from VISA as select * from VISA ;

Nove select * from VISA;

Nove select * from VI
```

```
Kenneth Arlington
Product1
                            Visa
                  1200
                                                                           United States
                                                                                    United States
Product1
                  1200
                            Visa
                                     Christian
                                                       Alexandria
                                                                           VA
                            Visa
Product1
                  1200
                                     matthew Cincinnati
                                                                 OH
                                                                          United States
Product1
                   1200
                            Visa
                                     Steven Houston TX
                                                                 United States
Product1
                   1200
                            Visa
                                     Elizabeth
                                                        North Eastham
                                                                                    United States
Product2
                                                        Sitka AK
                   3600
                            Visa
                                     marie-louise
                                                                           United States
                                     Stephen Calgary Alberta Canada
Roza Alcobendas Madrid
                   3600
                            Visa
Product2
Product1
                  1200
                            Visa
                                                                 Madrid Spain
                                     Kathryn Waiau Pa
Maureen Statesville
                                                                 Auckland
                                                                                    New Zealand
Product1
                  1200
                            Visa
                            Visa
                                                                 NC
                                                                       United States
Product1
                  1200
                                                     HI United States
rock Dublin Ireland
Foxrock Dublin Ireland
                                     David Kapaa HI
Alexia Blackrock
Gloria Gail Fox
Product1
                            Visa
                  1200
Product1
                            Visa
                  1200
Product1
                   1200
                            Visa
                                     Frank and Christelle
Allison Edinburgh
Product3
                   7500
                            Visa
                                                                 Valley Center
                                                                                   CA
                                                                                             United States
                                                                                    United Kingdom
Product1
                   1200
                            Visa
                                                                 Scotland
Product1
                  1200
                            Visa
                                     jingyan Bristol RI
                                                                 United States
                                     Doug and Tina Pls Vrds Est CA
Lauren Hradec Kralove East Bohemia
                  1200
                            Visa
                                                                                    United States
Product1
                                                                                    Czech Republic
Product1
                  1200
                            Visa
                                                                 England United Kingdom
Product1
                  1200
                            Visa
                                              Maidstone
                                     Jen
                                                                 England United Kingdom
Malta
                                     gladys
                                              Saint Albans
Product1
                  1200
                            Visa
Product1
                            Visa
                                     Erica Nadur
                  1200
                                     Rosemary
Darian Izmir
                                                        Cobham England United Kingdom
Product1
                  1200
                            Visa
                                                                 Turkey
England United Kingdom
Product1
                   1200
                            Visa
                                                       Izmir
Product1
                   1200
                            Visa
                                     Alyssa
                                             Brighton
Product1
                   1200
                            Visa
                                     Hale
                                              Hawera Taranaki
                                                                          New Zealand
                                                                 Guatemala
Product1
                  1200
                            Visa
                                     Glen
                                              Atlantida
                                                                                    Guatemala
                                                                 Madrid Spain
n CO
                                              El Escorial
Product1
                  1200
                            Visa
                                     christal
                                                        Morrison
Product1
                  1200
                            Visa
                                                                                    United States
                                    christal
Macy Inner City Vienna Austria
Hans-Joerg Belfast Northern Ireland
Hans-Joerg Black River Black River
Christiane Black River Black River
Product1
                  1200
                            Visa
                            Visa
Product1
                                                                                             United Kingdom
                  1200
                                                                                             Mauritius
Product2
                            Visa
                  3600
Product1
                  1200
                            Visa
                                     Julia Madison WI
Time taken: 0.339 seconds, Fetched: 524 row(s)
```

```
hive> create view MASTERCARD as select * from sales where payment_type="Mastercard";
Time taken: 0.318 seconds hive> select * from MASTERCARD;
OK
                                                                                                                               on England United Kingdom
Astoria OR United States
on England United Kingdom
Astoria OR United States
Product1
                                1200
                                                Mastercard
                                                                                 corolina
                                                                                                                Basildon
                                                                                corolla Basildon Englar
Federica e Andrea Astoria OR
Carolina Basildon Englar
Federica e Andrea Astoria OR
Fleur Peoria IL United States
adam Martin TN United States
                                 1200
                                                Mastercard
Mastercard
Product1
                                1200
Product1
                                                Mastercard
Mastercard
                                 1200
Product1
                                1200
Product1
                                 1200
                                                 Mastercard
                                                                                Renee Elisabeth Tel Aviv Tel Aviv
Sean Shavano Park TX United States
                                                Mastercard
Product1
                                1200
                                                                                                                                                                                  Israel
                                 1200
                                                 Mastercard
                                                                               Sean Shavano Park TX United States
Nicola Roodepoort Gauteng South Africa
Lena Kuopio Ita-Suomen Laani Finland
Katherine New York NY United States
Linda Miami FL United States
SYLVIA Vesenaz Geneve Switzerland
Stephanie Badhoevedorp Noord-Holland Netherlands
Anneli Houston TX United States
Marie Ball Ground GA United States
Sari Newbury England United Kingdom
simone Kobenhavn Kobenhavn Denmark
Frank Melbourne Victoria Australia
Product1
                                1200
                                                Mastercard
  roduct1
                                 1200
                                                Mastercard
Product1
                                1200
                                                Mastercard
                                 1200
                                                Mastercard
  roduct1
                                1200
1200
                                                Mastercard
Mastercard
Product1
 Product1
                                1200
1200
                                                Mastercard
Mastercard
Product1
 Product1
                                                Mastercard
Mastercard
Product1
                                 1200
                                                                                                                                 Kobenhavn Denmar
Victoria Austra
NY United States
OH United States
Product1
                                 1200
                                                                                                Melbourne
New Rochelle
Beachwood
                                                                                                                                                                 Australia
Product1
                                 1200
                                                Mastercard
Mastercard
                                                                                Frank
Nikki
Product1
                                 1200
Product1
                                 1200
                                                 Mastercard
                                                                                 June
                                                                                                                                 Stockholm Swede
NH United States
Product1
                                1200
                                                Mastercard
                                                                                 Bonnie Saltsjobaden
                                                                                                                                                                 Sweden
                                 1200
                                                                                 chrissy W Lebanon
                                                 Mastercard
                                                                                CHITCSSY W LEDANON NH United States
Tamar Headley England United Kingdom
Deirdre Lausanne Vaud Switzerland
Bernadett Southampton England United Kingdom
Tammy Morges Vaud Switzerland
AnaPaula Helens Bay Northern Ireland
Lindi Vancouver British Columbia Canada
 Product1
                                1200
                                                Mastercard
  roduct2
                                 3600
                                                Mastercard
Product1
                                1200
1200
                                                Mastercard
                                                Mastercard
  roduct1
Product1
                                1200
1200
                                                Mastercard
Mastercard
                                                                                                                                                                                                 United Kingdom
Product1
```

```
Product1
                1200
                        Mastercard
                                        David Stavenger
                                                               Rogaland
                                                                               Norway
Product2
                                                       Begnins Vaud
                                                                       Switzerland
                3600
                        Mastercard
                                        Caroline
Product1
                1200
                                        Chris Den Haaq
                                                               Zuid-Holland Netherlands
                        Mastercard
                                                                       United States
                                                               CO
Product1
                1200
                                               Castle Rock
                        Mastercard
                                        lorna
                1200
                                        Jerome Madrid Madrid Spain
Product1
                        Mastercard
Product3
                7500
                        Mastercard
                                               Fresno TX
                                                               United States
                                        Anita
Product1
                1200
                        Mastercard
                                        Veronique
                                                      Fresno
                                                               TX
                                                                       United States
                                               Montgomery
Product1
                1200
                        Mastercard
                                       Maki
                                                               TX
                                                                       United States
Product1
                1200
                        Mastercard
                                               Manteno IL
                                                               United States
                                        Sarah
                                               Benoni Gauteng South Africa
Product1
                1200
                        Mastercard
                                       Niamh
                                              Lake Ronkonkoma NY
Product1
                1200
                        Mastercard
                                        Fiona
                                                                       United States
Product1
                1200
                        Mastercard
                                        Julie Chelmsford
                                                               MA
                                                                       United States
Product1
                1200
                        Mastercard
                                       philippa katherine
                                                               Cabinteely
                                                                               Dublin Ireland
Product2
                3600
                        Mastercard
                                        Anthony Toronto Ontario Canada
Product1
                1200
                        Mastercard
                                       Lauren Poughkeepsie
                                                               NY
                                                                       United States
Product1
                1200
                        Mastercard
                                       Esther Cincinnati
                                                               OH
                                                                       United States
Product2
                                       Tanya Carcross
                                                               Yukon Territory Canada
                3600
                        Mastercard
                                       Detlev Taby
Product1
                1200
                                                       Stockholm
                                                                       Sweden
                        Mastercard
                1200
                                               Sammamish
Product1
                                        paula
                                                               WA
                                                                       United States
                        Mastercard
Product1
                1200
                        Mastercard
                                        Isabelle
                                                       Ewa Beach
                                                                       HI
                                                                               United States
Product2
                3600
                                       Parth Oegstgeest
                                                               Zuid-Holland
                        Mastercard
                                                                               Netherlands
Product2
                3600
                        Mastercard
                                       Gloria Gail WalcProduct3ee Tyrol Austria
                                       Cheryl Hilton Head
Product2
                3600
                        Mastercard
                                                               SC
                                                                       United States
Product2
                3600
                        Mastercard
                                       Triona Swampscott
                                                               MA
                                                                       United States
Product1
                1200
                        Mastercard
                                       Selma
                                               Greenville
                                                               TX
                                                                       United States
Product1
                1200
                        Mastercard
                                       Gustavo Voluntari
                                                               Bucuresti
                                                                               Romania
Product1
                1200
                        Mastercard
                                       Kevin Hollywood
                                                               CA
                                                                       United States
Product1
                1200
                        Mastercard
                                       KELI
                                               Worongary
                                                               Oueensland
                                                                               Australia
Product1
                1200
                        Mastercard
                                       Alex
                                               Augusta GA
                                                               United States
                3600
                                               Avalon New South Wales Australia
Product2
                        Mastercard
                                       Anke
                                       TRICIA Sydney New South Wales Australia
Product2
                3600
                        Mastercard
                                       smith Lahti
Product1
                1200
                                                       Etela-Suomen Laani
                                                                               Finland
                        Mastercard
Product1
                1200
                       Mastercard
                                       Lesleigh
                                                       Baden Aargau Switzerland
Time taken: 0.281 seconds, Fetched: 279 row(s)
hive>
```

7. Show all the transactions done in Seattle.

```
Nive> Select * from sale where city = "Seattle";

OK

Product1 1200 Visa Vicki and Bill Seattle WA United States

Product1 1200 Visa Craig Seattle WA United States

Product1 1200 Visa Kim Seattle WA United States

Product2 3600 Visa cristina Seattle WA United States

Product2 3600 Visa cristina Seattle WA United States

Product1 1200 Amex Justine Seattle WA United States

Product1 1200 Amex Justine Seattle WA United States

Product1 1200 Amex Justine Seattle WA United States

Product1 1200 Nisa Reto Seattle WA United States

Time taken: 0.117 seconds, Fetched: 6 row(s)
```

8. Find the max number of transactions done within the state of Ontario.

```
htwo select max(price) from sale where state="Ontario";

Query ID = hadoop_2021000403723_b7eb2c21-9e32-4aeb-bb61-dfb97864ccac
Total jobs = 1

Launching Job I out of 1

Number of reduce tasks determined at compile time: 1

In order to change the average load for a reducer (in bytes):
set hive.wex.reducers.bytes.per.reducer=number>
In order to limit the maximum number of reducers:
set hive.wex.reducers.max=number>
In order to set a constant number of reducers:
set hive.wex.reducers.max=number>
Job running in-process (local Madoop)
2021-66-04 03147736,798 Citage=1 map = 0%, reduce = 0%
2021-66-04 03147748,613 Stage=1 map = 100%, reduce = 0%
2021-66-04 03147149,613 Stage=1 map = 100%, reduce = 100%
Ended Job = Job_local22189322_0001

MapReduce Jobs Launched:
Stage-Stage=1: HDFS Read: 115088 HDFS Write: 0 SUCCESS
Total MapReduce CPU Time Spent: 0 msec

OK
3600

Time taken: 25.327 seconds, Fetched: 1 row(s)
htve>
```

9. Find the number of transactions whose price is between 1500-3600.

```
hive> select price,count(*) from sales where price between 1500 and 3600 group by price;
Query ID = hadoop_20210603102938_940ba5ac-4aad-440c-9491-c86101518390
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2021-06-03 10:29:39,953 Stage-1 map = 100%, reduce = 100%
Ended Job = job_local2026052441_0013
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 1612652 HDFS Write: 230658 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
OK
1800
2100
       1
3600
       137
Time taken: 1.923 seconds, Fetched: 3 row(s)
hive>
```

# 10. List all the transactions done in the United States using Mastercard.

hive> select *	from sa	les where countr	y="United	States"	and pay	ment typ	e="Maste	ercard";	
OK			•						
Product1	1200	Mastercard	Federica	e Andre	ea	Astoria	OR	United	States
Product1	1200	Mastercard	Federica	e Andre	ea	Astoria	OR	United	States
Product1	1200	Mastercard	Fleur	Peoria	IL	United	States		
Product1	1200	Mastercard	adam	Martin	TN	United	States		
Product1	1200	Mastercard	Sean	Shavano	Park	TX	United	States	
Product1	1200	Mastercard	Katherin	ne	New Yor	k	NY	United	States
Product1	1200	Mastercard	Linda	Miami	FL	United	States		
Product1	1200	Mastercard	Anneli	Houston	TX	United	States		
Product1	1200	Mastercard	Marie	Ball Gro	ound	GA	United	States	
Product1	1200	Mastercard	Nikki	New Rock	nelle	NY	United	States	
Product1	1200	Mastercard	June	Beachwoo	od	OH	United	States	
Product1	1200	Mastercard	chrissy	W Leband	on	NH	United	States	
Product2	3600	Mastercard	Valda	Irvine	CA	United	States		
Product1	1200	Mastercard	ZENA	Honoluli	J	HI	United	States	
Product1	1200	Mastercard	Tod	Coral Ga	ables	FL	United	States	
Product1	1200	Mastercard	Alexis	Genoa	IL	United	States		
Product1	1200	Mastercard	catherin	ne	Keller	VA	United	States	
Product1	1200	Mastercard	Bruce ar	nd Camil	le	Clinton	NJ	United	States
Product1	1200	Mastercard	Ellen	Owensbor	го	KY	United	States	
Product1	2100	Mastercard	Gerald	Mahopac	NY	United	States		
Product1	1200	Mastercard	Jamie	Houston	TX	United	States		
Product1	1200	Mastercard	Clare	Lafayett	te	CA	United	States	
Product1	1200	Mastercard	Tracy	Louisvi		KY	United	States	
Product1	1200	Mastercard	David	Deptford		NJ	United	States	
Product1	1200	Mastercard	Jammie	Belmont	MA	United	States		
Product1	1200	Mastercard	Frank	Old Gree	enwich	CT	United	States	
Product1	1200	Mastercard	scott	Coconut		FL	United	States	
Product1	1200	Mastercard		Norfolk		United			
Product3	7500	Mastercard	Amanda	Shrevepo		LA	United	States	
Product1	1200	Mastercard	Andrea	Shrevepo	ort	LA	United	States	
Product1	1200	Mastercard	Anastasi		NYC	NY	United		
Product1	1200	Mastercard	Rlanca (	Cabriela	Trying	TY	United	States	

Product1	1200	Mastercard	Lisa	South W	aterford	ME	United	States		
Product1	1200	Mastercard	Nita and	d Trebor	Washing	ton Town	ship	OH	United	States
Product1	1200	Mastercard	Elisabet		Wilming		NC	United	States	
Product1	1200	Mastercard	Alexandi	ria	Lebanon	PA	United	States		
Product1	1200	Mastercard	Nathalie	9	Haymark	et	VA	United	States	
Product1	1200	Mastercard	isabela	Reston	VA	United	States			
Product2	3600	Mastercard	Jo	Hunting'	ton Beac	h	CA	United	States	
Product1	1200	Mastercard	Petra	San Fran	ncisco	CA	United	States		
Product1	1200	Mastercard	Tammy	Milford	ME	United	States			
Product1	1200	Mastercard	james	Nashvil	le	TN	United	States		
Product1	1200	Mastercard	Allison	Naples	FL	United	States			
Product1	1200	Mastercard	Surat	Bridgew	ater	NJ	United	States		
Product2	3600	Mastercard	Judy	Washing	ton	DC	United	States		
Product1	1200	Mastercard	Beatrice	9	Wilming	ton	DE	United	States	
Product1	1200	Mastercard	Malahat	Minneap	olis	MN	United	States		
Product2	3600	Mastercard	Jean	Arlingto	on	VA	United	States		
Product1	1200	Mastercard	Jessica	Chiefla		FL	United	States		
Product1	1200	Mastercard	lorna	Castle	Rock	CO	United	States		
Product3	7500	Mastercard	Anita	Fresno	TX	United	States			
Product1	1200	Mastercard	Veroniqu	Je	Fresno	TX	United	States		
Product1	1200	Mastercard	Maki	Montgom	егу	TX	United	States		
Product1	1200	Mastercard	Sarah	Manteno	IL	United	States			
Product1	1200	Mastercard	Fiona	Lake Ro	nkonkoma	NY	United	States		
Product1	1200	Mastercard	Julie	Chelmsf	ord	MA	United	States		
Product1	1200	Mastercard	Lauren	Poughke	epsie	NY	United	States		
Product1	1200	Mastercard	Esther	Cincinn	eti	OH	United	States		
Product1	1200	Mastercard	paula	Sammami:	sh	WA	United	States		
Product1	1200	Mastercard	Isabelle		Ewa Bea	ch	HI	United	States	
Product2	3600	Mastercard	Cheryl	Hilton I	lead	SC	United	States		
Product2	3600	Mastercard	Triona	Swampsco	ott	MA	United	States		
Product1	1200	Mastercard	Selma	Greenvi	lle	TX	United	States		
Product1	1200	Mastercard	Kevin	Hollywoo	od	CA	United	States		
Product1	1200	Mastercard	Alex	Augusta	GA	United	States			
Time taken:	0.378 secon	ds, Fetched: 132	row(s)							
hive>										