# Bigdata Training - Project

## Kaustubh Gharat

# Project 1: Customer 360

#### Combined HBase Table:

#### Combined Hive Table:

```
hive> select * from itv001180_project1.combined_hbase where customer_id = 9992;

OK

2021-09-24 11:18:53,153 INFO [a184aeba-2044-41b8-b3ab-4c1189135653 main] zookeeper.RecoverableZooKeeper: Process identifier=hconnection-0x5a5024eb connecting to ZooKeeper en semble=m01.itversity.com:2181,m02.itversity.com:2181,w01.itversity.com:2181
2021-09-24 11:18:53,185 INFO [a184aeba-2044-41b8-b3ab-4c1189135653 main] mapreduce.RegionSizeCalculator: Calculating region sizes for table "itv001180_project1.combined_hbas e".

2021-09-24 11:18:53,200 INFO [a184aeba-2044-41b8-b3ab-4c1189135653 main] client.ConnectionImplementation: Closing zookeeper sessionid=0x1017a0b11430362
2021-09-24 11:18:53,224 INFO [a184aeba-2044-41b8-b3ab-4c1189135653 main] zookeeper.RecoverableZooKeeper: Process identifier=hconnection-0x3a5c6009 connecting to ZooKeeper en semble=m01.itversity.com:2181,m02.itversity.com:2181,w01.itversity.com:2181
2021-09-24 11:18:53,233 INFO [a184aeba-2044-41b8-b3ab-4c1189135653 main] mapreduce.TableInputFormatBase: Input split length: 0 bytes.
2021-09-24 11:18:53,262 INFO [a184aeba-2044-41b8-b3ab-4c1189135653 main] client.ConnectionImplementation: Closing zookeeper sessionid=0x20134e811ce00c6
9992 Mary Smith 63775 2014-03-12 00:00:00.0
Time taken: 5.437 seconds, Fetched: 1 row(s)
hives [assume the content of the co
```

# Project 2: <u>A1Mart Online Retail Analysis</u>

• Import data from MySQL to HDFS

```
[itv001180@g02 \sim]$ hadoop fs -ls /user/${USER}/Project2 Found 3 items
```

```
      drwxr-xr-x
      - itv001180 supergroup
      0 2021-09-23 12:01 /user/itv001180/Project2/customers

      drwxr-xr-x
      - itv001180 supergroup
      0 2021-09-30 09:43 /user/itv001180/Project2/order_items

      drwxr-xr-x
      - itv001180 supergroup
      0 2021-09-23 12:02 /user/itv001180/Project2/orders
```

• Retrieve all records for particular customer

| CustomerId | FirstName | LastName | EmailId  | Password | Street                      | City          | State | Zipcode |
|------------|-----------|----------|----------|----------|-----------------------------|---------------|-------|---------|
| 9406       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 8187 Merry Pony Field       | Chicago       | IL    | 60660   |
| 9509       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 7970 Little Heath           | Dearborn      | MI    | 48126   |
| 9625       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 6234 Honey Grove Expressway | New York      | NY    | 10025   |
| 10078      | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 5282 Silent Landing         | Manati        | PR    | 00674   |
| 10559      | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 9009 Umber Log Island       | Caguas        | PR    | 00725   |
| 11150      | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 5712 Burning Nook           | Hialeah       | FL    | 33016   |
| 11175      | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 3141 Pleasant Corner        | Phoenix       | AZ    | 85033   |
| 11320      | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 555 Dewy Wagon Byway        | Tracy         | CA    | 95376   |
| 11333      | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 4703 Grand Square           | San Jose      | CA    | 95123   |
| 11422      | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 4545 Dewy Apple Concession  | Moreno Valley | CA    | 92557   |
| 12315      | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 1321 Easy Embers Lane       | Santa Fe      | NM    | 87505   |
| 6399       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 8706 Harvest Green          | Chicago       | IL    | 60638   |
| 7163       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 6867 Honey Heights          | Detroit       | MI    | 48205   |
| 7626       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 3665 Tawny Knoll            | Caguas        | PR    | 00725   |
| 8231       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 6760 Grand Cloud Hill       | Marietta      | GA    | 30067   |
| 8555       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 8212 Broad Circle           | Caguas        | PR    | 00725   |
| 3143       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 37 Lost Terrace             | Stamford      | CT    | 06902   |
| 3230       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 3051 Dewy Creek Harbour     | Caguas        | PR    | 00725   |
| 3661       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 5961 Hidden Village         | Caguas        | PR    | 00725   |
| 3723       | Mary      | Jones    | XXXXXXXX | XXXXXXXX | 7625 Colonial Branch Row    | Humacao       | PR    | 00791   |

• List count of orders based on status and month

| Month | OrderStatus     | count |
|-------|-----------------|-------|
| 01    | PENDING_PAYMENT | 1334  |
| 01    | PENDING         | 635   |
| 01    | CANCELED        | 110   |
| 01    | COMPLETE        | 1911  |
| 01    | PROCESSING      | 712   |
| 01    | CLOSED          | 633   |
| 01    | ON_HOLD         | 365   |
| 01    | PAYMENT_REVIEW  | 77    |
| 01    | SUSPECTED_FRAUD | 131   |
| 02    | COMPLETE        | 1869  |
| 02    | ON_HOLD         | 308   |
| 02    | PROCESSING      | 700   |
| 02    | PENDING_PAYMENT | 1205  |
| 02    | PENDING         | 650   |
| 02    | CLOSED          | 602   |
| 02    | PAYMENT_REVIEW  | 57    |
| 02    | SUSPECTED_FRAUD | 119   |
| 02    | CANCELED        | 125   |
| 03    | PENDING         | 605   |
| 03    | COMPLETE        | 1967  |

only showing top 20 rows

• List count of orders based on status and month for particular customer

| Mont | h OrderStatus   | count |
|------|-----------------|-------|
| 04   | CLOSED          | 1     |
| 05   | PENDING_PAYMENT | 2     |
| 06   | CLOSED          | 1     |
| 10   | PENDING         | 1     |
| 11   | COMPLETE        | 1     |
| 12   | CLOSED          | 1     |
| 12   | PENDING_PAYMENT | 1     |

customerID = 7465

• List count of orders based on customer and status

| CustomerId | OrderStatus     | count |
|------------|-----------------|-------|
| 1          | COMPLETE        | 1     |
| 10         | COMPLETE        | 2     |
| 100        | COMPLETE        | 3     |
| 100        | PROCESSING      | 1     |
| 100        | CANCELED        | 1     |
| 100        | PENDING_PAYMENT | 1     |
| 100        | PENDING         | 1     |
| 1000       | COMPLETE        | 4     |
| 1000       | PROCESSING      | 1     |
| 1000       | PENDING         | 1     |
| 1000       | CLOSED          | 1     |
| 10000      | COMPLETE        | 2     |
| 10000      | PENDING_PAYMENT | 1     |
| 10000      | ON_HOLD         | 1     |
| 10001      | PENDING_PAYMENT | 3     |
| 10001      | CLOSED          | 1     |
| 10001      | COMPLETE        | 2     |
| 10002      | PROCESSING      | 2     |
| 10003      | PENDING_PAYMENT | 3     |
| 10003      | CANCELED        | 1     |

only showing top 20 rows

#### • Find the customers who have placed orders

| CustomerI | d FirstName | LastName | EmailId   | Password | Street                      | City            | State | Zipcode |
|-----------|-------------|----------|-----------|----------|-----------------------------|-----------------|-------|---------|
| 11332     | Denise      | Smith    | XXXXXXXX  | XXXXXXXX | 139 Little Bear Chase       | Caguas          | PR    | 00725   |
| 4032      | Jennifer    | Smith    | XXXXXXXX  | XXXXXXXX | 9512 Old Pony Canyon        | Brooklyn        | NY    | 11213   |
| 6240      | Virginia    | Elliott  | XXXXXXXX  | XXXXXXXX | 5735 Quaking Cider Highway  | Caguas          | PR    | 00725   |
| 2904      | Lisa        | Walton   | XXXXXXXX  | XXXXXXXX | 1221 Easy Corners           | Mesa            | AZ    | 85201   |
| 5325      | Diana       | Smith    | XXXXXXXX  | XXXXXXXX | 4377 Heather Canyon         | Caguas          | PR    | 00725   |
| 9009      | Mary        | Sanchez  | XXXXXXXX  | XXXXXXXX | 8142 Emerald Cider Jetty    | Caguas          | PR    | 00725   |
| 10436     | Eric        | King     | XXXXXXXX  | XXXXXXXX | 2538 Quaking Hills Ramp     | New York        | NY    | 10029   |
| 9586      | Mary        | Olson    | XXXXXXXX  | XXXXXXXX | 1399 Dewy Expressway        | Caguas          | PR    | 00725   |
| 11888     | Frank       | Barrett  | XXXXXXXX  | XXXXXXXX | 5104 Jagged Park            | Fullerton       | CA    | 92833   |
| 1512      | Mary        | Rowe     | XXXXXXXX  | XXXXXXXX | 2924 Velvet Dale Corners    | Caguas          | PR    | 00725   |
| 691       | Mary        | Terrell  | XXXXXXXX  | XXXXXXXX | 3310 Blue Quay              | Stafford        | VA    | 22554   |
| 296       | Mary        | Mullen   | XXXXXXXX  | XXXXXXXX | 7370 Sleepy Way             | Detroit         | MI    | 48213   |
| 7252      | Mary        | Smith    | XXXXXXXX  | XXXXXXXX | 577 Old Branch Jetty        | Freehold        | NJ    | 07728   |
| 3959      | Laura       | Shields  | XXXXXXXX  | XXXXXXXX | 9095 Indian Quail Extension | Fort Lauderdale | FL    | 33311   |
| 3414      | Ruth        | Smith    | XXXXXXXX  | XXXXXXXX | 2355 Velvet Hickory Crest   | Caguas          | PR    | 00725   |
| 12394     | Samantha    | Sims     | XXXXXXXX  | XXXXXXXX | 8170 Dusty Oak Townline     | Caguas          | PR    | 00725   |
| 9993      | Mary        | Scott    | XXXXXXXX  | XXXXXXXX | 4148 Round Parkway          | Broken Arrow    | OK    | 74012   |
| 11722     | Donna       | Vance    | XXXXXXXX  | XXXXXXXX | 2476 Grand Leaf Townline    | Caguas          | PR    | 00725   |
| 7711      | Mary        | Powell   | XXXXXXXX  | XXXXXXXX | 2121 Middle Log Jetty       | Caguas          | PR    | 00725   |
| 9583      | Sarah       | Smith    | XXXXXXXXX | XXXXXXXX | 8776 Heather Green          | Caguas          | PR    | 00725   |

only showing top 20 rows

#### • Find the customers who have not placed orders yet

| CustomerId | FirstName | LastName | EmailId  | Password  | Stre | et                      | City                 | State | Zipcode |
|------------|-----------|----------|----------|-----------|------|-------------------------|----------------------|-------|---------|
| 10060      | Mary      | Shaw     | XXXXXXXX | XXXXXXXXX | 4645 | Fallen Timber By-pass   | Caguas               | PR    | 00725   |
| 10330      | Mary      | Smith    | XXXXXXXX | XXXXXXXX  | 3410 | Lazy Shadow Pathway     | Hamilton             | OH    | 45013   |
| 10439      | Emma      | Smith    | XXXXXXXX | XXXXXXXX  | 1465 | Clear Elk Diversion     | Caguas               | PR    | 00725   |
| 10913      | Mary      | Williams | XXXXXXXX | XXXXXXXX  | 9113 | Grand Hills Parade      | San Jose             | CA    | 95123   |
| 10958      | Joan      | Smith    | XXXXXXXX | XXXXXXXX  | 8771 | Middle Quail Heath      | Los Angeles          | CA    | 90024   |
| 12175      | Amanda    | Smith    | XXXXXXXX | XXXXXXXX  | 3729 | Cinder Grove Concession | Tonawanda            | NY    | 14150   |
| 12190      | Mary      | Smith    | XXXXXXXX | XXXXXXXX  | 4462 | Little Lagoon Route     | Tempe                | AZ    | 85283   |
| 12392      | Alan      | Wolf     | XXXXXXXX | XXXXXXXX  | 6470 | Fallen Barn Autoroute   | Santa Ana            | CA    | 92704   |
| 6613       | Ashley    | Smith    | XXXXXXXX | XXXXXXXX  | 9847 | Dusty Horse Corner      | Caguas               | PR    | 00725   |
| 7011       | Kevin     | Smith    | XXXXXXXX | XXXXXXXX  | 1915 | Thunder Hickory Freeway | Wyandotte            | MI    | 48192   |
| 7552       | Carl      | Smith    | XXXXXXXX | XXXXXXXX  | 9966 | Cinder Loop             | Howell               | MI    | 48843   |
| 8243       | Gary      | Walker   | XXXXXXXX | XXXXXXXX  | 2447 | Stony Barn Street       | New York             | NY    | 10128   |
| 8343       | Mary      | Bolton   | XXXXXXXX | XXXXXXXX  | 7302 | Sunny Valley            | Caguas               | PR    | 00725   |
| 8575       | Mary      | Mueller  | XXXXXXXX | XXXXXXXX  | 9714 | Emerald Bear Lookout    | Caguas               | PR    | 00725   |
| 8778       | Mary      | Smith    | XXXXXXXX | XXXXXXXX  | 4015 | Tawny Rise Crescent     | Caguas               | PR    | 00725   |
| 8882       | Kenneth   | Smith    | XXXXXXXX | XXXXXXXX  | 6754 | Iron Leaf Line          | Hickory              | NC    | 28601   |
| 9060       | Matthew   | Patel    | XXXXXXXX | XXXXXXXX  | 7190 | Silver Horse Glade      | Henderson            | NV    | 89014   |
| 9315       | Mary      | Lewis    | XXXXXXXX | XXXXXXXX  | 2993 | Burning Dale Farms      | North Richland Hills | TX    | 76180   |
| 4555       | Mary      | Smith    | XXXXXXXX | XXXXXXXX  | 5455 | Red Lagoon Maze         | Caguas               | PR    | 00725   |
| 4927       | Carolyn   | Green    | XXXXXXXX | XXXXXXXX  | 7550 | Sleepy View Court       | Caguas               | PR    | 00725   |

only showing top 20 rows

#### • Find top 5 customers

Highest number of orders

| CustomerId | count |
|------------|-------|
| +          | ++    |
| 5897       | 16    |
| 12431      | 16    |
| 6316       | 16    |
| 569        | 16    |
| 12284      | 15    |

## o Highest sum of total orders

| OrderId | sum(Subtotal)       |
|---------|---------------------|
|         | <u> </u>            |
|         | 3449.91000000000003 |
| 68724   | 2859.89000000000003 |
| 68858   | 2839.91             |
| 68809   | 2779.86             |
| 68766   | 2699.9              |

• Find the customer who did not order in last 1 month or for long time

| CustomerId | FirstName | LastName | EmailId  | Password | Street                     | City           | State | Zipcode |
|------------|-----------|----------|----------|----------|----------------------------|----------------|-------|---------|
| 9329       | Eugene    | Powell   | XXXXXXXX | XXXXXXXX | 2161 Burning Maze          | Metairie       | LA    | 70003   |
| 9331       | Donna     | Smith    | XXXXXXXX | XXXXXXXX | 941 Thunder Branch Heights | Clementon      | NJ    | 08021   |
| 9332       | Mary      | Jordan   | XXXXXXXX | XXXXXXXX | 1551 Quaking Bend          | Caguas         | PR    | 00725   |
| 9333       | Angela    | Mills    | XXXXXXXX | XXXXXXXX | 2580 Rustic Bay            | Los Angeles    | CA    | 90026   |
| 9334       | Mary      | Johnston | XXXXXXXX | XXXXXXXX | 4145 Jagged Downs          | Tampa          | FL    | 33624   |
| 9335       | Joseph    | Smith    | XXXXXXXX | XXXXXXXX | 7861 Honey Acres           | Caguas         | PR    | 00725   |
| 9336       | Janice    | Guzman   | XXXXXXXX | XXXXXXXX | 8143 Dusty Island          | Spring Valley  | CA    | 91977   |
| 9339       | Ann       | Moyer    | XXXXXXXX | XXXXXXXX | 4417 Hazy Creek Pike       | Caguas         | PR    | 00725   |
| 9341       | Karen     | Collins  | XXXXXXXX | XXXXXXXX | 6163 Lazy Pointe           | Chicago        | IL    | 60613   |
| 9342       | Teresa    | Grant    | XXXXXXXX | XXXXXXXX | 3684 Old River Crossing    | Caguas         | PR    | 00725   |
| 9343       | Mary      | Knapp    | XXXXXXXX | XXXXXXXX | 2394 Gentle Treasure Farms | Salina         | KS    | 67401   |
| 9344       | Kelly     | Smith    | XXXXXXXX | XXXXXXXX | 8355 Lazy Anchor Pines     | Caguas         | PR    | 00725   |
| 9346       | Jack      | Smith    | XXXXXXXX | XXXXXXXX | 4208 Jagged Apple Dale     | Caguas         | PR    | 00725   |
| 9347       | Mary      | Fuentes  | XXXXXXXX | XXXXXXXX | 1229 Sunny Forest Place    | Oxnard         | CA    | 93033   |
| 9348       | Eric      | Smith    | XXXXXXXX | XXXXXXXX | 10 Pleasant Prairie Link   | Wyoming        | MI    | 49509   |
| 9352       | Mary      | Lewis    | XXXXXXXX | XXXXXXXX | 9623 Clear Landing         | South El Monte | CA    | 91733   |
| 9354       | Bruce     | Mitchell | XXXXXXXX | XXXXXXXX | 3235 Merry Way             | Roswell        | GA    | 30075   |
| 9355       | Mary      | Smith    | XXXXXXXX | XXXXXXXX | 1847 Jagged Willow Cove    | Caguas         | PR    | 00725   |
| 9357       | Katherine | Spence   | XXXXXXXX | XXXXXXXX | 9920 Cozy Terrace          | Encinitas      | CA    | 92024   |
| 9358       | Mary      | Smith    | XXXXXXXX | XXXXXXXX | 3867 Bright Zephyr Ledge   | Caguas         | PR    | 00725   |

only showing top 20 rows

• Find the last order date for all customers

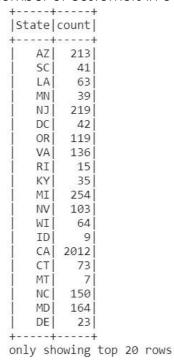
|       | +          |          |
|-------|------------|----------|
| 11748 | 2014-02-22 | 00:00:00 |
| 833   | 2014-03-20 | 00:00:00 |
| 5803  | 2014-07-22 | 00:00:00 |
| 1342  | 2014-03-10 | 00:00:00 |
| 4900  | 2014-05-12 | 00:00:00 |
| 7880  | 2014-06-10 | 00:00:00 |
| 3794  | 2014-06-26 | 00:00:00 |
| 1088  | 2014-02-27 | 00:00:00 |
| 8638  | 2014-04-15 | 00:00:00 |
| 3918  | 2014-07-08 | 00:00:00 |
| 9852  | 2014-03-04 | 00:00:00 |
| 7754  | 2014-06-14 | 00:00:00 |
| 5300  | 2014-06-30 | 00:00:00 |
| 11858 | 2014-03-24 | 00:00:00 |
| 7993  | 2014-04-20 | 00:00:00 |
| 6336  | 2014-07-01 | 00:00:00 |
| 6466  | 2014-06-13 | 00:00:00 |
| 463   | 2014-07-15 | 00:00:00 |
| 6654  | 2014-07-21 | 00:00:00 |
| 11317 | 2014-07-02 | 00:00:00 |

only showing top 20 rows

• Find open and close number of orders for a customer

CustomerID: 7833 +----+ |OPENED|CLOSED| +----+ |3 |2 | +----+

• Find number of customers in every state



• 3 additional requirements

o Number of orders based on month for a particular city

## o Customer details whose orders are suspected to be fraud

| CustomerId | FirstName | LastName | EmailId   | Password   | Stree | et                   | City        | State | Zipcode | OrderId | Timestamp  |          |
|------------|-----------|----------|-----------|------------|-------|----------------------|-------------|-------|---------|---------|------------|----------|
| 12077      | Thomas    | Garcia   | XXXXXXXXX | XXXXXXXXX  | 1681  | High Berry Path      | Caguas      | PR    | 725     | 17230   | 2013-11-09 | 00:00:00 |
| 6260       | Mary      | Randolph | XXXXXXXXX | XXXXXXXXX  | 5105  | Cozy Line            | Caguas      | PR    | 725     | 17245   | 2013-11-09 | 00:00:00 |
| 235        | David     | Smith    | XXXXXXXXX | XXXXXXXXX  | 75 Su | inny Grounds         | Piscataway  | NJ    | 8854    | 17436   | 2013-11-10 | 00:00:00 |
| 9305       | Mary      | Evans    | XXXXXXXXX | XXXXXXXXX  | 4255  | Red Dale             | Florissant  | MO    | 63033   | 17478   | 2013-11-11 | 00:00:00 |
| 5351       | Mary      | Smith    | XXXXXXXXX | XXXXXXXXX  | 6582  | Red Heights          | Cleveland   | OH    | 44109   | 17512   | 2013-11-11 | 00:00:00 |
| 3086       | Barbara   | Harris   | XXXXXXXXX | XXXXXXXXX  | 2513  | Sleepy Log Grounds   | Tampa       | FL    | 33614   | 17518   | 2013-11-11 | 00:00:00 |
| 376        | Grace     | Sanchez  | XXXXXXXXX | XXXXXXXXX  | 6468  | Fallen Close         | Caguas      | PR    | 725     | 17591   | 2013-11-11 | 00:00:00 |
| 5938       | Donna     | Smith    | XXXXXXXXX | XXXXXXXXX  | 651 L | azy Cape             | Caguas      | PR    | 725     | 17638   | 2013-11-11 | 00:00:00 |
| 9576       | Hannah    | Pena     | XXXXXXXXX | XXXXXXXXX  | 3729  | Umber Autumn Trace   | Cupertino   | CA    | 95014   | 17704   | 2013-11-12 | 00:00:00 |
| 2544       | Mary      | Smith    | XXXXXXXXX | XXXXXXXXX  | 2905  | Quiet River Trail    | Hanover     | PA    | 17331   | 17753   | 2013-11-12 | 00:00:00 |
| 7393       | Mary      | Smith    | XXXXXXXXX | XXXXXXXXX  | 4210  | Silver Heights       | Caguas      | PR    | 725     | 17791   | 2013-11-12 | 00:00:00 |
| 11672      | Charles   | Burns    | XXXXXXXXX | XXXXXXXXX  | 1691  | Jagged Nectar Corner | Caguas      | PR    | 725     | 17802   | 2013-11-12 | 00:00:00 |
| 2227       | Mary      | Smith    | XXXXXXXXX | XXXXXXXXX  | 1836  | Cozy View Orchard    | Caguas      | PR    | 725     | 17804   | 2013-11-12 | 00:00:00 |
| 6994       | Kathy     | Frost    | XXXXXXXXX | XXXXXXXX   | 5814  | Grand Oak Impasse    | Caguas      | PR    | 725     | 17806   | 2013-11-12 | 00:00:00 |
| 6145       | Tiffany   | Wade     | XXXXXXXXX | XXXXXXXXX  | 3614  | Misty Mall           | Caguas      | PR    | 725     | 17839   | 2013-11-12 | 00:00:00 |
| 3795       | Peter     | Williams | XXXXXXXXX | XXXXXXXXX  | 3586  | Merry Grounds        | Caguas      | PR    | 725     | 17859   | 2013-11-12 | 00:00:00 |
| 430        | Mary      | Smith    | XXXXXXXXX | XXXXXXXXX  | 3482  | Indian Pony Towers   | Porterville | CA    | 93257   | 17899   | 2013-11-13 | 00:00:00 |
| 3529       | Victoria  | Weaver   | XXXXXXXXX | XXXXXXXXX  | 2503  | Easy Path            | Endicott    | NY    | 13760   | 17985   | 2013-11-13 | 00:00:00 |
| 9578       | Robert    | Smith    | XXXXXXXXX | XXXXXXXXXX | 2553  | Harvest Dell         | Caguas      | PR    | 725     | 18015   | 2013-11-13 | 00:00:00 |
| 9892       | David     | Norris   | XXXXXXXXX | XXXXXXXXX  | 5561  | Easy Turnabout       | Louisville  | KY    | 40214   | 18210   | 2013-11-14 | 00:00:00 |

only showing top 20 rows

#### o Number of orders based on zip code for a particular city

| City: Los | +      |
|-----------|--------|
| Zipcode   |        |
| +         |        |
| 90019     | 12     |
| 90042     | 50.200 |
| 90046     |        |
| 90003     |        |
| 90057     |        |
| 90011     | 45     |
| 90044     |        |
| 90034     | 10000  |
| 90004     | 40     |
| 90023     | 47     |
| 90066     | 70     |
| 90047     |        |
| 90018     | 27     |
| 90006     | 17     |
| 90024     |        |
| 90002     | 27     |
| 90016     | 42     |
| 90033     | 53     |
| 90043     | 56     |
| 90022     | 31     |
| 90037     | 39     |
| 90065     | 37     |
| 90027     | 57     |
| 90007     | 56     |
| 90026     |        |
| 90063     | 37     |
| 90001     | 0.500  |
| 90032     | 47     |