

## HIVE – ASSIGNMENT 1

1. Download vehicle sales data ->

**[https://github.com/shashank-mishra219/Hive-Class/blob/main/sales\\_order\\_data.csv](https://github.com/shashank-mishra219/Hive-Class/blob/main/sales_order_data.csv)**

2. Store raw data into hdfs location

**hadoop fs -copyFromLocal /home/cloudera/Desktop/sales\_order\_data.csv /**

3. Create an internal hive table "sales\_order\_csv" which will store csv data sales\_order\_csv .. make sure to skip header row while creating table

**Use hive\_class\_b1;**

**Create table sales\_order\_csv(ordernumber int, quantityordered int, priceeach float, orderlinenumber int, sales int, status string, qtr\_id int, month\_id int, year\_id int, productline string, msrp int, productcode int, phone int, city string, state string, postalcode int, country string, territory string, contactlastname string, contactfirstname string, dealsize string) row format delimited fields terminated by ',' tblproperties("skip.header.line.count"="1");**

4. Load data from hdfs path into "sales\_order\_csv"

**Load data local inpath 'file:///user/hive/sales\_order\_csv' into table sales\_order\_csv;**

5. Create an internal hive table which will store data in ORC format "sales\_order\_orc"

**Create table sales\_order\_orc(ordernumber int, quantityordered int, priceeach float, orderlinenumber int, sales int, status string, qtr\_id int, month\_id int, year\_id int, productline string, msrp int, productcode int, phone int, city string, state string, postalcode int, country string, territory string, contactlastname string, contactfirstname string, dealsize string) row format delimited fields terminated by ',' stored as ORC;**

6. Load data from "sales\_order\_csv" into "sales\_order\_orc"

**Insert into table sales\_order\_orc select \* from sales\_order\_csv;**

Perform below mentioned queries on "sales\_order\_orc" table :

- a. Calculate total sales per year

**Select year\_id, sum(sales) total\_sales from sales\_order\_orc group by year\_id;**

```

hive> show tables;
OK
sales_order_csv
sales_order_orc
Time taken: 0.031 seconds, Fetched: 2 row(s)
hive> Select year_id, sum(sales) total sales from sales_order_csv;
FAILED: SemanticException [Error 10025]: Line 1:7 Expression not in GROUP BY key 'year_id'
hive> select year_id, sum(sales) total sales from sales_order_csv;
FAILED: SemanticException [Error 10025]: Line 1:7 Expression not in GROUP BY key 'year_id'
hive> select year_id, sum(sales) total sales from sales_order_orc;
FAILED: SemanticException [Error 10025]: Line 1:7 Expression not in GROUP BY key 'year_id'
hive> select year_id, sum(sales) total sales from sales_order_orc group by year_id;
Query ID = cloudera_20221103010202_0c452a45-7c6f-4439-b892-c1554aeed2e0
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>
Starting Job = job_1667453642337_0004, Tracking URL = http://quickstart.cloudera:8088/proxy/applica
tion_1667453642337_0004/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1667453642337_0004
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-11-03 01:02:40,028 Stage-1 map = 0%, reduce = 0%
2022-11-03 01:02:52,645 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.22 sec
2022-11-03 01:03:04,708 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 6.67 sec
MapReduce Total cumulative CPU time: 6 seconds 670 msec
Ended Job = job_1667453642337_0004
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.67 sec HDFS Read: 32481 HDFS Write: 39 SUCCE
SS
Total MapReduce CPU Time Spent: 6 seconds 670 msec
OK
2003 3516514
2004 4723531
2005 1791264
Time taken: 44.96 seconds, Fetched: 3 row(s)
hive> █

```

 [Browsing HDFS - Moz...]
 cloudera@quickstart:~
 [sales\_order\_data.csv ...]

- b. Find a product for which maximum orders were placed

**Select a.productline, a.quantityordered from sales\_order\_orc a left semi join (select max(quantityordered) max\_order from sales\_order\_orc) b on (a.quantityordered=b.max\_order);**

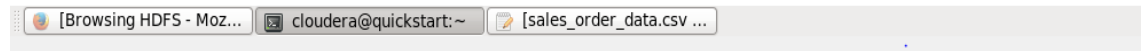
```
hive> Select a.productline, a.quantityordered from sales_order_orc a left semi join (select max(quantityordered) max_order from sales_order_orc) b on (a.quantityordered=b.max_order);
Query ID = cloudera_20221103010505_bd828099-06b1-415a-a20a-e477fbc91a
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks determined at compile time: 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>
Starting Job = job_1667453642337_0005, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1667453642337_0005/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1667453642337_0005
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-11-03 01:05:37,557 Stage-1 map = 0%, reduce = 0%
2022-11-03 01:05:48,482 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.05 sec
2022-11-03 01:05:59,283 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 6.91 sec
MapReduce Total cumulative CPU time: 6 seconds 910 msec
Ended Job = job_1667453642337_0005
Stage-6 is selected by condition resolver.
Stage-2 is filtered out by condition resolver.
Execution log at: /tmp/cloudera/cloudera_20221103010505_bd828099-06b1-415a-a20a-e477fbc91a.log
2022-11-03 01:06:08 Starting to launch local task to process map join; maximum memory = 932
184064
2022-11-03 01:06:10 Dump the side-table for tag: 1 with group count: 1 into file: file:/tmp/cloudera/ef192242-d9a9-471d-a1fc-667b657812b0/hive_2022-11-03_01-05-25_119_9124603777831644843-1/-local-10004/HashTable-Stage-4/MapJoin-mapfile01-..hashtable
2022-11-03 01:06:10 Uploaded 1 File to: file:/tmp/cloudera/ef192242-d9a9-471d-a1fc-667b657812b0/hive_2022-11-03_01-05-25_119_9124603777831644843-1/-local-10004/HashTable-Stage-4/MapJoin-mapfile01-..hashtable (278 bytes)
2022-11-03 01:06:10 End of local task; Time Taken: 2.171 sec.
Execution completed successfully
MapredLocal task succeeded
Launching Job 3 out of 3
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1667453642337_0006, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1667453642337_0006/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1667453642337_0006
Hadoop job information for Stage-4: number of mappers: 1; number of reducers: 0
2022-11-03 01:06:23,604 Stage-4 map = 0%, reduce = 0%
2022-11-03 01:06:34,426 Stage-4 map = 100%, reduce = 0%, Cumulative CPU 4.66 sec
MapReduce Total cumulative CPU time: 4 seconds 660 msec
Ended Job = job_1667453642337_0006
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.91 sec HDFS Read: 28424 HDFS Write: 114 SUCCESS
Stage-Stage-4: Map: 1 Cumulative CPU: 4.66 sec HDFS Read: 26686 HDFS Write: 16 SUCCESS
Total MapReduce CPU Time Spent: 11 seconds 570 msec
OK
Classic Cars 97
Time taken: 70.486 seconds, Fetched: 1 row(s)
```

[Browsing HDFS - Moz... cloudera@quickstart:~ sales\_order\_data.csv ...]

- c. Calculate the total sales for each quarter

**Select qtr\_id, sum(sales) total\_sales from sales\_order\_orc group by qtr\_id;**

```
hive> Select qtr_id, sum(sales) total_sales from sales_order_orc group by qtr_id;
Query ID = cloudera_20221103011717_1ea97cc6-0015-4f20-a039-d935e3cfe18f
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>
Starting Job = job_1667453642337_0010, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1667453642337_0010/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1667453642337_0010
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-11-03 01:17:37,711 Stage-1 map = 0%, reduce = 0%
2022-11-03 01:17:48,780 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 5.78 sec
2022-11-03 01:18:00,588 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 9.24 sec
MapReduce Total cumulative CPU time: 9 seconds 240 msec
Ended Job = job_1667453642337_0010
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 9.24 sec HDFS Read: 32743 HDFS Write: 40 SUCCESS
S
Total MapReduce CPU Time Spent: 9 seconds 240 msec
OK
1      2350510
2      2047855
3      1758673
4      3874271
Time taken: 36.167 seconds, Fetched: 4 row(s)
hive>
```



d. In which quarter sales was minimum

**Select qtr\_id, sum(sales) total\_sales from sales\_order\_orc group by qtr\_id order by total\_sales asc limit 1;**

```
hive> Select qtr_id, sum(sales) total_sales from sales_order_orc group by qtr_id order by total_sales asc limit 1;
Query ID = cloudera_20221103011313_8858b341-8c7a-48f1-9301-254403ef0a50
Total jobs = 2
Launching Job 1 out of 2
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>
Starting Job = job_1667453642337_0008, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1667453642337_0008/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1667453642337_0008
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-11-03 01:14:05,607 Stage-1 map = 0%, reduce = 0%
2022-11-03 01:14:17,432 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 5.72 sec
2022-11-03 01:14:28,213 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 8.8 sec
MapReduce Total cumulative CPU time: 8 seconds 800 msec
Ended Job = job_1667453642337_0008
Launching Job 2 out of 2
Number of reduce tasks determined at compile time: 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>
Starting Job = job_1667453642337_0009, Tracking URL = http://quickstart.cloudera:8088/proxy/applicat
ion_1667453642337_0009/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1667453642337_0009
Hadoop job information for Stage-2: number of mappers: 1; number of reducers: 1
2022-11-03 01:14:39,972 Stage-2 map = 0%, reduce = 0%
2022-11-03 01:14:49,663 Stage-2 map = 100%, reduce = 0%, Cumulative CPU 2.31 sec
2022-11-03 01:15:00,424 Stage-2 map = 100%, reduce = 100%, Cumulative CPU 5.72 sec
MapReduce Total cumulative CPU time: 5 seconds 720 msec
Ended Job = job_1667453642337_0009
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 8.8 sec HDFS Read: 31813 HDFS Write: 184 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 5.72 sec HDFS Read: 5223 HDFS Write: 10 SUCCESS
Total MapReduce CPU Time Spent: 14 seconds 520 msec
OK
3 1758673
Time taken: 67.941 seconds, Fetched: 1 row(s)
hive>
```

[Browsing HDFS - Moz... cloudera@quickstart:~ [sales\_order\_data.csv ...]

- e. In which country sales was maximum and in which country sales was minimum

**Select country, max(sales) from sales\_order\_orc group by country;**

```
hive> Select country, max(sales) from sales_order_orc group by country;
Query ID = cloudera_20221103012121_6d8970e4-b379-4c29-b74d-d3b11b604f10
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>
Starting Job = job_1667453642337_0011, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1667453642337_0011/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1667453642337_0011
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-11-03 01:21:30,953 Stage-1 map = 0%, reduce = 0%
2022-11-03 01:21:41,789 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 6.31 sec
2022-11-03 01:21:53,638 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 9.74 sec
MapReduce Total cumulative CPU time: 9 seconds 740 msec
Ended Job = job_1667453642337_0011
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 9.74 sec HDFS Read: 33594 HDFS Write: 248 SUCCESS
Total MapReduce CPU Time Spent: 9 seconds 740 msec
OK
Australia      9774
Austria 9240
Belgium 6804
Canada 9064
Denmark 10468
Finland 10606
France 11739
Germany 8940
Ireland 8258
Italy 9160
Japan 10758
Norway 8844
Philippines 7483
Singapore 10993
Spain 12001
Sweden 7209
Switzerland 6761
UK 11886
USA 14082
Time taken: 37.982 seconds, Fetched: 19 row(s)
hive>
```

[Browsing HDFS - Moz... cloudera@quickstart:~ [sales\_order\_data.csv ...]

## Select country, min(sales) from sales\_order\_orc group by country;

```
hive> Select country, min(sales) from sales_order_orc group by country;
Query ID = cloudera_20221103012424_177fe40e-1230-4134-ba95-f988f5c059ee
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>
Starting Job = job_1667453642337_0012, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1667453642337_0012/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1667453642337_0012
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-11-03 01:24:14,638 Stage-1 map = 0%, reduce = 0%
2022-11-03 01:24:26,567 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.88 sec
2022-11-03 01:24:38,435 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 8.46 sec
MapReduce Total cumulative CPU time: 8 seconds 460 msec
Ended Job = job_1667453642337_0012
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 8.46 sec HDFS Read: 33594 HDFS Write: 228 SUCCE
SS
Total MapReduce CPU Time Spent: 8 seconds 460 msec
OK
Australia 652
Austria 640
Belgium 881
Canada 1119
Denmark 1146
Finland 891
France 482
Germany 948
Ireland 1056
Italy 577
Japan 553
Norway 1129
Philippines 1173
Singapore 785
Spain 683
Sweden 1467
Switzerland 1205
UK 710
USA 541
Time taken: 39.565 seconds, Fetched: 19 row(s)
hive>
```

[Browsing HDFS - Moz... cloudera@quickstart:~ sales\_order\_data.csv ...]

- f. Calculate quarterly sales for each city

**Select qtr\_id, city, sum(sales) from sales\_order\_orc group by city, qtr\_id;**




```
hive> Select qtr_id, city, sum(sales) from sales_order_orc group by city, qtr_id;
Query ID = cloudera_20221103012727_1294d0dd-4e9e-437d-abea-11243becc998
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>
Starting Job = job_1667453642337_0013, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1667453642337_0013/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1667453642337_0013
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-11-03 01:28:08,554 Stage-1 map = 0%, reduce = 0%
2022-11-03 01:28:20,785 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 6.65 sec
2022-11-03 01:28:32,626 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 10.34 sec
MapReduce Total cumulative CPU time: 10 seconds 340 msec
Ended Job = job_1667453642337_0013
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 10.34 sec HDFS Read: 34980 HDFS Write: 3095 SUCCESS
Total MapReduce CPU Time Spent: 10 seconds 340 msec
OK
```

4	Aarhus	100583
2	Allentown	6166
3	Allentown	71924
4	Allentown	44038
2	Barcelona	4219
4	Barcelona	74182
1	Bergamo	56172
4	Bergamo	81762
3	Bergen	16361
4	Bergen	95266
1	Boras	31603
3	Boras	53933
4	Boras	48704
2	Boston	74982
3	Boston	15342
4	Boston	63724
1	Brickhaven	31470
2	Brickhaven	7276
3	Brickhaven	114957
4	Brickhaven	11527
2	Bridgewater	75771
4	Bridgewater	26113
1	Brisbane	16116
3	Brisbane	34094
1	Bruxelles	18798
2	Bruxelles	8410
3	Bruxelles	47753
1	Burbank	37847



1	Paris	71486	
2	Paris	80206	
3	Paris	27794	
4	Paris	89428	
1	Pasadena		44267
3	Pasadena		55767
4	Pasadena		4512
1	Philadelphia		27396
2	Philadelphia		7286
4	Philadelphia		116486
2	Reggio Emilia		41503
3	Reggio Emilia		56415
4	Reggio Emilia		44665
1	Reims	52020	
2	Reims	18970	
3	Reims	15145	
4	Reims	48889	
2	Salzburg		98091
3	Salzburg		6692
4	Salzburg		44997
1	San Diego		87478
1	San Francisco		72890
4	San Francisco		151442
2	San Jose		159994
1	San Rafael		267279
2	San Rafael		7261
3	San Rafael		216271
4	San Rafael		163961
4	Sevilla	54718	
1	Singapore		28391
2	Singapore		92018
3	Singapore		90240
4	Singapore		77802
1	South Brisbane		21728
3	South Brisbane		10639
4	South Brisbane		27097
1	Stavern	54694	
4	Stavern	61890	
2	Strasbourg		80430
3	Torino	94107	
1	Toulouse		15137
3	Toulouse		17249
4	Toulouse		38092
2	Tsawassen		31296
3	Tsawassen		43326
4	Vancouver		75227
1	Versailles		5759
4	Versailles		59068
4	White Plains		85545

Time taken: 37.331 seconds, Fetched: 182 row(s)  
hive> █

 [Browsing HDFS - Moz...]
  cloudera@quickstart: ~
  [sales\_order\_data.csv ...]

- g. Find a month for each year in which maximum number of quantities were sold

**Select distinct a.month\_id, a.year\_id, a.quantityordered from sales\_order\_orc a inner join (select month\_id, year\_id, max(quantityordered) as max\_quantity from sales\_order\_orc group by month\_id, year\_id)b on (a.month\_id = b.month\_id and a.year\_id=b.year\_id and a.quantityordered = b.max\_quantity);**

```
hive> Select distinct a.month_id, a.year_id, a.quantityordered from sales_order_orc a inner join (select month_id, year_id, max(quantityordered) as max_quantity from sales_order_orc group by month_id, year_id)b on (a.month_id = b.month_id and a.year_id=b.year_id and a.quantityordered = b.max_quantity);
```

```
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>
Starting Job = job_1667453642337_0015, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1667453642337_0015/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1667453642337_0015
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 1
2022-11-03 01:32:06,126 Stage-3 map = 0%, reduce = 0%
2022-11-03 01:32:17,023 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 2.62 sec
2022-11-03 01:32:29,993 Stage-3 map = 100%, reduce = 100%, Cumulative CPU 6.12 sec
MapReduce Total cumulative CPU time: 6 seconds 120 msec
Ended Job = job_1667453642337_0015
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.67 sec HDFS Read: 29366 HDFS Write: 734 SUCCESS
Stage-Stage-3: Map: 1 Reduce: 1 Cumulative CPU: 6.12 sec HDFS Read: 11121 HDFS Write: 296 SUCCESS
Total MapReduce CPU Time Spent: 13 seconds 790 msec
OK
```

1	2003	50
1	2004	50
1	2005	50
2	2003	50
2	2004	50
2	2005	50
3	2003	50
3	2004	50
3	2005	50
4	2003	50
4	2004	49
4	2005	97
5	2003	50
5	2004	50
5	2005	70
6	2003	50
6	2004	50
7	2003	49
7	2004	50
8	2003	49
8	2004	50
9	2003	50
9	2004	50
10	2003	50
10	2004	50
11	2003	50
11	2004	55
12	2003	49
12	2004	50

Time taken: 90.745 seconds, Fetched: 29 row(s)  
hive> █

[Browsing HDFS - Moz... cloudera@quickstart:~ sales\_order\_data.csv ...]