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1. Download vechile sales data -> https://github.com/shashank-mishra219/Hive-Class/blob/main/sales_order_data.csv

2. Store raw data into hdfs location

=> copyFromLocal sales_order_data.csv/

3. Create a internal hive table "sales_order_csv" which will store csv data sales_order_csv .. make sure to skip header row while creating table

- => create table sales_order_csv(
 - > ORDERNUMBER int,
 - > QUANTITYORDERED int,
 - > PRICEEACH float,
 - > ORDERLINENUMBER int,
 - > SALES float,
 - > STATUS string,
 - > QTR_ID int,
 - > MONTH_ID int,
 - > YEAR_ID int,
 - > PRODUCTLINE string,
 - > MSRP int,
 - > PRODUCTCODE string,
 - > PHONE string,
 - > CITY string,
 - > STATE string,
 - > POSTALCODE string,

```
> 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"
=>
hive> load data local inpath 'sales_order_data.csv' into table sales_order_csv;
Loading data to table assi_3.sales_order_csv
Table assi_3.sales_order_csv stats: [numFiles=1, totalSize=357411]
OK
Time taken: 1.71 seconds
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 float,
  > STATUS string,
  > QTR_ID int,
  > MONTH_ID int,
  > YEAR_ID int,
  > PRODUCTLINE string,
  > MSRP int,
  > PRODUCTCODE string,
  > PHONE string,
  > CITY string,
  > STATE string,
  > POSTALCODE string,
  > COUNTRY string,
  > TERRITORY string,
  > CONTACTLASTNAME string,
  > CONTACTFIRSTNAME string,
  > DEALSIZE string
  >)
 > stored as orc;
OK
Time taken: 0.243 seconds
6. Load data from "sales_order_csv" into "sales_order_orc"
=>
```

hive> insert overwrite table sales_order__orc select * from sales_order_csv;

Perform below menioned queries on "sales_order_orc" table :

a. Calculatye total sales per year

=>select year_id , sum(sales) from sales_order__orc group by year_id;

output :

2003 3516979.547241211

2004 4724162.593383789

2005 1791486.7086791992

Time taken: 66.56 seconds, Fetched: 3 row(s)

b. Find a product for which maximum orders were placed

=>select PRODUCTLINE, count(quantityordered) as maxordered from sales_order__orc group by productline order by maxordered desc limit 1;

output:

Classic Cars 967

Time taken: 120.017 seconds, Fetched: 1 row(s)

c. Calculate the total sales for each quarter

=> select qtr_id , count(sales) from sales_order__orc group by qtr_id;

output:

- 1 665
- 2 561
- 3 503

4 1094

Time taken: 57.364 seconds, Fetched: 4 row(s)

d. In which quarter sales was minimum

=> select qtr_id, count(sales) from sales_order__orc group by qtr_id order by qtr_id asc limit 1;

output :

1 665

Time taken: 117.683 seconds, Fetched: 1 row(s)

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

=>

country sales was maximum

select country , count(sales) as tot_sales from sales_order__orc group by country order by tot_sales desc limit 1;

output:

USA 1004

Time taken: 125.78 seconds, Fetched: 1 row(s)

country sales was minimum

select country, count(sales) as tot_sales from sales_order__orc group by country order by tot_sales asc limit 1;

output:

Ireland 16

Time taken: 128.562 seconds, Fetched: 1 row(s)

f. Calculate quartelry sales for each city

=>

select qtr_id,city , count(sales) from sales_order__orc group by qtr_id, city ;

output :

1	Bergamo	18
_	Deigaillo	10

- 1 Boras 8
- 1 Brickhaven 8
- 1 Brisbane 4
- 1 Bruxelles 5
- 1 Burbank 10
- 1 Burlingame 4
- 1 Cambridge 6
- 1 Charleroi 3
- 1 Cowes 8
- 1 Dublin 9
- 1 Espoo 15
- 1 Frankfurt 12
- 1 Gensve 14
- 1 Glendale 1
- 1 Graz 3
- 1 Helsinki 6
- 1 Kobenhavn 15
- 1 Lille 6
- 1 London 3
- 1 Los Angeles 8
- 1 Lule 2
- 1 Lyon 30

- 1 Madrid 104
- 1 Makati City 16
- 1 Manchester 16
- 1 Marseille 1
- 1 Melbourne 15
- 1 Minato-ku 9
- 1 NYC 10
- 1 Nantes 15
- 1 Nashua 4
- 1 New Bedford 11
- 1 Newark 3
- 1 North Sydney 19
- 1 Osaka 17
- 1 Oulu 17
- 1 Paris 19
- 1 Pasadena 13
- 1 Philadelphia 6
- 1 Reims 18
- 1 San Diego 25
- 1 San Francisco 19
- 1 San Rafael 74
- 1 Singapore 8
- 1 South Brisbane 6
- 1 Stavern 16
- 1 Toulouse 5
- 1 Versailles 1
- 2 Allentown 2
- 2 Barcelona 1
- 2 Boston 23

- 2 Brickhaven 2
- 2 Bridgewater 17
- 2 Bruxelles 5
- 2 Cambridge 5
- 2 Charleroi 1
- 2 Chatswood 13
- 2 Espoo 6
- 2 Glen Waverly 5
- 2 Glendale 8
- 2 Kobenhavn 13
- 2 Las Vegas 13
- 2 Liverpool 23
- 2 London 9
- 2 Madrid 88
- 2 Marseille 17
- 2 Melbourne 17
- 2 Minato-ku 7
- 2 Montreal 18
- 2 NYC 44
- 2 Nantes 17
- 2 New Haven 9
- 2 Newark 18
- 2 Osaka 3
- 2 Oulu 5
- 2 Paris 22
- 2 Philadelphia 3
- 2 Reggio Emilia 14
- 2 Reims 5
- 2 Salzburg 28

- 2 San Jose 40
- 2 San Rafael 2
- 2 Singapore 27
- 2 Strasbourg 19
- 2 Tsawassen 12
- 3 Allentown 20
- 3 Bergen 4
- 3 Boras 14
- 3 Boston 5
- 3 Brickhaven 33
- 3 Brisbane 11
- 3 Bruxelles 15
- 3 Burlingame 11
- 3 Cambridge 13
- 3 Charleroi 1
- 3 Chatswood 19
- 3 Dublin 7
- 3 Espoo 9
- 3 Gensve 17
- 3 Glen Waverly 2
- 3 Glendale 2
- 3 Helsinki 11
- 3 Las Vegas 10
- 3 Madrid 19
- 3 Munich 14
- 3 NYC 18
- 3 Nantes 20
- 3 New Bedford 16
- 3 North Sydney 14

- 3 Oslo 13
- 3 Oulu 10
- 3 Paris 8
- 3 Pasadena 16
- 3 Reggio Emilia 15
- 3 Reims 4
- 3 Salzburg 2
- 3 San Rafael 57
- 3 Singapore 26
- 3 South Brisbane 4
- 3 Torino 26
- 3 Toulouse 3
- 3 Tsawassen 14
- 4 Aaarhus 27
- 4 Allentown 9
- 4 Barcelona 22
- 4 Bergamo 30
- 4 Bergen 25
- 4 Boras 16
- 4 Boston 16
- 4 Brickhaven 4
- 4 Bridgewater 8
- 4 Burbank 3
- 4 Burlingame 19
- 4 Cambridge 14
- 4 Charleroi 3
- 4 Chatswood 14
- 4 Cowes 18
- 4 Frankfurt 10

- 4 Glen Waverly 16
- 4 Glendale 11
- 4 Graz 12
- 4 Helsinki 13
- 4 Kobenhavn 8
- 4 Koln 26
- 4 Las Vegas 6
- 4 Lille 14
- 4 Liverpool 6
- 4 London 26
- 4 Los Angeles 6
- 4 Lule 17
- 4 Lyon 11
- 4 Madrid 93
- 4 Makati City 10
- 4 Manchester 35
- 4 Marseille 7
- 4 Melbourne 23
- 4 Minato-ku 16
- 4 Montreal 4
- 4 NYC 80
- 4 Nantes 8
- 4 Nashua 30
- 4 New Bedford 34
- 4 New Haven 8
- 4 North Sydney 13
- 4 Oslo 11
- 4 Paris 21
- 4 Pasadena 1

- 4 Philadelphia 35
- 4 Reggio Emilia 10
- 4 Reims 14
- 4 Salzburg 10
- 4 San Francisco 43
- 4 San Rafael 47
- 4 Sevilla 15
- 4 Singapore 18
- 4 South Brisbane 5
- 4 Stavern 16
- 4 Toulouse 12
- 4 Vancouver 22
- 4 Versailles 17
- 4 White Plains 26

Time taken: 60.828 seconds, Fetched: 182 row(s)

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

for 2003

=> select month_id, year_id, count(quantityordered) as qty from sales_order__orc where year_id = 2003 group by year_id, month_id order by qty desc limit 1;

output:

11 2003 296

Time taken: 126.788 seconds, Fetched: 1 row(s)

for 2004

=> select month_id, year_id, count(quantityordered) as qty from sales_order__orc where year_id = 2004 group by year_id, month_id order by qty desc limit 1;

output:

11 2004 301

Time taken: 127.062 seconds, Fetched: 1 row(s)

for 2005

=> select month_id, year_id, count(quantityordered) as qty from sales_order__orc where year_id = 2005 group by year_id, month_id order by qty desc limit 1;

output :

5 2005 120

Time taken: 112.273 seconds, Fetched: 1 row(s)