- 1. Download vechile sales data ->
 https://github.com/shashank-mishra219/Hive-Class/blob/main/sales_order_dat
 a.csv
- 2. Store raw data into hdfs location
- 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
- 4. Load data from hdfs path into "sales order csv"
- 5. Create an internal hive table which will store data in ORC format "sales_order_orc"
- 6. Load data from "sales order csv" into "sales order orc"

```
sales_order_orc.ordernumber sales_order_orc.quantityordered sales_order_orc.priceeach sales_order_orc.orderlinen
umber sales_order_orc.sales sales_order_orc.status sales_order_orc.qtr_id sales_order_orc.month_id sales_orde
c_orc.year_id sales_order_orc.productline sales_order_orc.msrp sales_order_orc.productcode sales_order_orc.ph
  sales order orc.ordernumber
   corc.year_id sales_order_orc.productline sales_order_orc.msrp sales_order_orc.productcode

ne sales_order_orc.city sales_order_orc.state sales_order_orc.postalcode sales_order_orc.territory sales_order_orc.contactlastname sales_order_orc.contactfirstname sales_ord
                                                                                                                                                                                                                                                                                                                                                                                                                                               .productcode sales_order_orc.ph
sales_order_orc.country sales_orde
                                                                                                                                                                                                                                                                                                                                                                                                                                                sales_order_orc.dealsize
95 S10 1678
                                                                                                                                                           2871.0 Shipped 1
   0107 30
                                                                                                                                                                                                                                                                                                                                                                Motorcycles
                                                                            10022 054 NA TU KWal
81.35 5 2765.9 Shipped 2
51100 France EMEA Henriot Paul
94.74 2 3884.34 Shipped 3
75508 France EMEA Da Cu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        S10_1678
                                                                                                                                                                                                                                                                                  Small
   Reims
   10134 41
2 7555 Paris
10145 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        S10 1678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        +33 1 46 6
                                                                                                                                                          France EMEA
                                                                                                                                                             3746.7 Shipped 3
USA NA Yo
  Pasadena
10159 49
                                                                                                                                                                                                                                                                                                                          Medium
                                                                                                                                                                                                                                                                                                                                                                 Motorcvcles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        S10 1678
   San Francisco CA
    ime taken: 0.294 seconds, Fetched: 5 row(s)
hive (d1)>
```

```
Proceeding with the content of the c
```

```
hive (d1) > 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: 0.249 seconds
hive (d1)>
```

```
Time taken: 0.411 seconds
hive> show tables
>;
OK
emp_avro
emp_ext
employee
employee
employee array
employee map
employee map
employee orc
employee_parq
sales_dynamic
sales_order_csv
sales_order_data
sales_static
Time taken: 0.054 seconds, Fetched: 11 row(s)
hive> load data inpath '/tmp/data/' into table slaes_order_csv;
FAILED: SemanticException [Error 10001]: Line 1:41 Table not found 'slaes_order_csv'
hive> load data inpath '/tmp/data/' into table sales_order_csv;
Loading data to table d1.sales_order_csv
Table d1.sales_order_csv stats: [numFiles=1, totalSize=360233]
OK
OK
Time taken: 0.953 seconds
hive> select * from sales_order_csv limit 5;
10107 30
              95.7 2
Small
                            2871.0 Shipped 1
                                                 2
                                                        2003 Motorcycles
                                                                                     S10_1678
                                                                                                   2125557818
                                                                                                                 NYC NY
                                                                                                                                10022 USA
u Kwai
10121 34
enriot Paul
10134 41
              81.35 5
                          2765.9 Shipped 2
                                              5
                                                                                               26.47.1555 Reims
                                                        2003 Motorcycles 95
                                                                                     S10 1678
                                                                                                                               51100 France EMEA
                         3884.34 Shipped 3
                                                                                     S10 1678
                                                                                               +33 1 46 62 7555 Paris
Ilme taken: 0.44 seconds, Fetched: 10 row(s)
hive> 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")
0K
Time taken: 0.411 seconds
hive> show tables
```

Perform below menioned queries on "sales_order_orc" table :

a. Calculatye total sales per year

b. Find a product for which maximum orders were placed

```
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 5.57 sec HDFS
Total MapReduce CPU Time Spent: 21 seconds 990 msec
OK
productline total
Classic Cars 33992
Time taken: 80.119 seconds, Fetched: 1 row(s)
```

c. Calculate the total sales for each quarter

```
hive (d1)> select qtr_id,sum(sales) as Total_sales from sales_order_orc > group by qtr_id;
```

d. In which quarter sales was minimum

```
Total MapReduce CPU Time Spent: 17 seconds 870 msec

OK

qtr_id total_sales

3     1758910.808959961

Time taken: 73.076 seconds, Fetched: 1 row(s)

hive (d1)>
```

e. In which country sales was maximum and in which country sales was $\min \min$

```
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 5.33 sec HDFS Read: 5781 HDFS Write Total MapReduce CPU Time Spent: 11 seconds 750 msec OK country total_sales Ireland 57756.43029785156 Time taken: 78.0 seconds, Fetched: 1 row(s)
```

```
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.22 sec HDFS Read: 369918 HDFS Write: 716 SUCCESS Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 5.16 sec HDFS Read: 5781 HDFS Write: 22 SUCCESS Total MapReduce CPU Time Spent: 11 seconds 380 msec OK country total_sales USA 3627982.825744629
Time taken: 79.216 seconds, Fetched: 1 row(s) hive (d1)>
```

f. Calculate quarterly sales for each city

```
Cumulative CPU: 18.61 sec
Stage-Stage-1: Map: 1
                       Reduce: 1
                                                                HDFS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 5.62 sec
                                                               HDFS R
Total MapReduce CPU Time Spent: 24 seconds 230 msec
OK
city
        qtr id total sales
                100595.5498046875
Aaarhus 4
Allentown
                2
                        6166.7998046875
                3
                        71930.61041259766
Allentown
                4
                        44040.729736328125
Allentown
                2
                        4219.2001953125
Barcelona
Barcelona
                        74192.66003417969
                4
Bergamo 1
                56181.320068359375
Bergamo 4
                81774.40008544922
                16363.099975585938
Bergen
        3
Bergen
        4
                95277.17993164062
                53941.68981933594
        3
Boras
                31606.72021484375
Boras
                48710.92053222656
Boras
        4
Boston 2
                74994.240234375
Boston 3
                15344.640014648438
Boston 4
                63730.7802734375
Brickhaven
                        31474.7802734375
                2
Brickhaven
                        7277.35009765625
Brickhaven
                        114974.53967285156
                4
                        11528.52978515625
Brickhaven
                2
Bridgewater
                        75778.99060058594
                4
                        26115.800537109375
Bridgewater
                1
                        16118.479858398438
Brisbane
                3
Brisbane
                        34100.030029296875
```