hive_class_3_assignment

```
1. Download vechile sales data -> https://github.com/shashank-mishra219/Hive-
Class/blob/main/sales order data.csv
Sol: Downloaded and transferred file into cloudera VM.
        [cloudera@quickstart ~]$ ls /tmp/hive class/sales order*
       /tmp/hive class/sales order data.csv
2. Store raw data into hdfs location
Sol: Move data from local file system to HDFS.
        [cloudera@quickstart ~]$ hdfs dfs -put
        /tmp/hive class/sales order data.csv /tmp/hive class/
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
Sol:
       create table sales order csv
       ORDERNUMBER int,
       QUANTITYORDERED int,
       PRICEEACH int,
       ORDERLINENUMBER int,
       SALES int,
       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"
Sol: load data inpath '/tmp/hive class/sales order data.csv' into table
sales order csv;
5. Create an internal hive table which will store data in ORC format
"sales order orc"
```

Sol:

```
create table sales order orc
       (
       ORDERNUMBER int,
       OUANTITYORDERED int,
       PRICEEACH int,
       ORDERLINENUMBER int,
       SALES int,
       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 ','
       stored as ORC;
6. Load data from "sales order csv" into "sales order orc"
Sol: from sales order csv insert overwrite table sales order orc select *;
Perform below menioned queries on "sales_order_orc" table :
   a. Calculate total sales per year
             year id total sales
               2003 3516514
            2 2004 4723531
             3 2005 1791264
  b. Find a product for which maximum orders were placed
      Sol: SELECT productcode, count(*) as cnt from sales order orc group by
     productcode ORDER BY cnt DESC limit 1;
      productcode
                      cnt
      S18 3232
                       52
   c. Calculate the total sales for each quarter
      Sol: SELECT qtr id, sum(sales) as totalsales from sales order orc GROUP
      BY qtr id;
      qtr_id totalsales
1 2350510
               2047855
       3
               1758673
               3874271
d. In which quarter sales was minimum
      Sol:SELECT qtr id, sum(sales) as totalsales from sales order orc GROUP
      BY qtr id ORDER BY totalsales limit 1;
```

qtr_id totalsales 3 1758673

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

SELECT country, sum(sales) as totalsales from sales_order_orc GROUP BY country ORDER BY totalsales limit 1; Minimum: Ireland 57749

SELECT country, sum(sales) as totalsales from sales_order_orc GROUP BY country ORDER BY totalsales desc limit 1;

Maximum: USA 3627511

- f. Calculate quartelry sales for each city
 Sol:select city, qtr_id, sum(sales) as salesforeachquarter from
 sales_order_orc group by qtr_id,city order by city;
- h. Find a month for each year in which maximum number of quantities were sold sol: select month_id, year_id, max(quantityordered) as quantity from sales_order_orc group by year_id, month_id order by year_id;

Note: I am not able perform last query properly, I am getting all records of each month and year