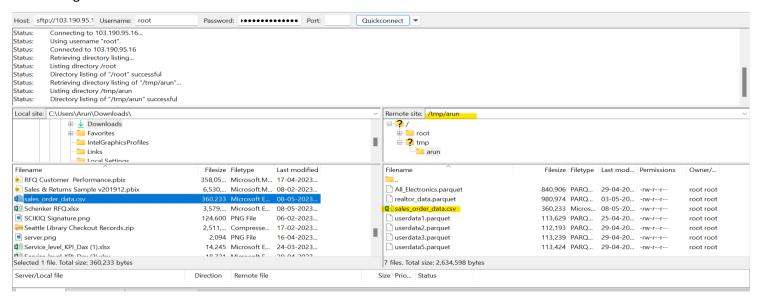
Q2. Store raw data into hdfs location

For storing the raw file from local to HDFS location we can use FileZilla as shown below



Q3. 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

first I have create database assignment

```
0: jdbc:hive2://103.190.95.12:10000> create database assignment1;
INFO : Compiling command(queryId=hive_20230509231404_22b82e9d-a26a-4482-ad74-84218b24010b): create database assignment1
INFO : Semantic Analysis Completed (retrial = false)
INFO : Created Hive schema: Schema(fieldSchemas:null, properties:null)
INFO : Completed compiling command(queryId=hive_20230509231404_22b82e9d-a26a-4482-ad74-84218b24010b); Time taken: 0.005 secon ds
INFO : Executing command(queryId=hive_20230509231404_22b82e9d-a26a-4482-ad74-84218b24010b): create database assignment1
INFO : Starting task [Stage-0:DDL] in serial mode
INFO : Completed executing command(queryId=hive_20230509231404_22b82e9d-a26a-4482-ad74-84218b24010b); Time taken: 0.042 secon ds
INFO : OK
```

2nd I have create table using below command.

Q4. Load data from hdfs path into "sales_order_csv"

load data inpath '/tmp/arun/sales_order_data.csv' into table sales_order_csv;

Q5. Create an internal hive table which will store data in ORC format "sales_order_orc"

Below are the queries to create and load the data into "sales_order_orc" table

```
No rows affected (0.348 seconds)

0: jdbc:hive2://103.190.95.12:10000> 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;

INFO : Compiling command(queryId=hive 20230509232817 6d8cad7b-f3e9-4c51-8417-f6751339b8eb): create table sales order orc
```

```
0: jdbc:hive2://103.190.95.20:10000> from sales_order_csv insert overwrite table sales_order_orc select *;
INFO : Compiling command(queryId=hive_20230510001652_5cc4e153-e03a-4152-bf9c-7b6d62d158fa): from sales_order_csv insert overwrite table s
ales_order_orc select *
```

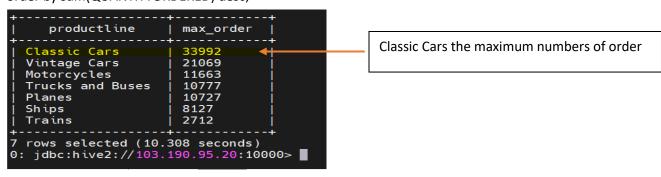
Q a. Calculatye total sales per year

```
select YEAR_ID, sum(SALES) as Total_sales from sales_order_orc group by YEAR_ID order by YEAR_ID;
```

```
| year_id | total_sales | +-----+ | 2003 | 3516979.547241211 | 2004 | 4724162.593383789 | 2005 | 1791486.7086791992 | +-----+ 3 rows selected (5.959 seconds) | 0: jdbc:hive2://103.190.95.20:10000>
```

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

select PRODUCTLINE, sum(QUANTITYORDERED) as Max_order from sales_order_orc group by PRODUCTLINE order by sum(QUANTITYORDERED) desc;



Q c. Calculate the total sales for each quarter

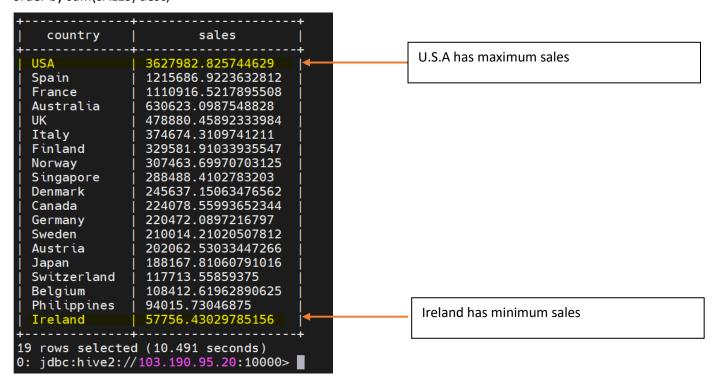
```
select QTR_ID, sum(SALES) as QTR_Sales from sales_order_orc group by QTR_ID order by QTR_ID;
```

Q d. In which quarter sales was minimum

```
select QTR_ID, sum(SALES) as QTR_Sales from sales_order_orc group by QTR_ID order by sum(SALES) asc;
```

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

select COUNTRY, sum(SALES) as Sales from sales_order_orc group by COUNTRY order by sum(SALES) desc;



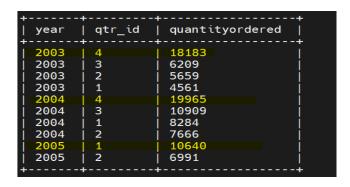
Q f. Calculate quartelry sales for each city

select CITY,QTR_ID, sum(SALES) as Sales from sales_order_orc group by CITY, QTR_ID order by CITY,QTR_ID;

city	l atrid	sales
l city	qtr_id	Sales
Aaarhus	4	100595.5498046875
Allentown	1 2	6166.7998046875
1	-	
Allentown	3	71930.61041259766
Allentown	4	44040.729736328125
Barcelona	2	4219.2001953125
Barcelona	j 4	74192.66003417969
Bergamo	j 1	56181.320068359375
Bergamo	j 4	81774.40008544922
Bergen	j 3	16363.099975585938
Bergen	j 4	95277.17993164062
Boras	j 1	31606.72021484375
Boras	j 3	53941.68981933594
Boras	j 4	48710.92053222656
Boston	2	74994.240234375
Boston	3	15344.640014648438
Boston	4	63730.7802734375
Brickhaven	1	31474.7802734375
Brickhaven	2	7277.35009765625
Brickhaven	3	114974.53967285156
Brickhaven	4	11528.52978515625

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

select YEAR_ID as year,QTR_ID, sum(QUANTITYORDERED) as Sales from sales_order_orc group by YEAR_ID,QTR_ID order by YEAR_ID,sum(QUANTITYORDERED) desc;



If we sort on the bases of Year the first-row item of each year has the highest quantity ordered w.r.t QTR