1) Store raw data into hdfs location.

Solution:

To store raw data in hdfs location we can use this command.

Hdfs dfs -put sales_order_data.csv data/assignment/sales

2) 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.

Solution:

To create an internal hive table of sales_order_csv, we have to use the following command.

```
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 terminated by ',';

3) Load data from hdfs path into "sales_order_csv".

Solution:

To load data from hdfs path into sales_order_csv we have use the following command:

Command: load data inpath '/sales_order_csv' into table sales_order_csv

PROBLEM	s outpu	JT TERI	MINAL G	GITLENS	COMMENTS	DEBUG CONSOL	E					∑ ba	ash <u>∧</u> + ∨	
hive> s	hive> select * from sales_order_csv limit 20;													
OK														
10107	30	95.7	2		Shipped 1	2	2003	Motorcycles	95	S10_1678	2125557818	NYC NY	10	
022	USA	NA	Yu	Kwai	Small									
10121	34	81.35		2765.9	Shipped 2		2003	Motorcycles	95	S10_1678	26.47.1555	Reims	51	
100	France	EMEA	Henriot		Small									
10134	41	94.74	2		Shipped 3		2003	Motorcycles	95	S10_1678	+33 1 46 62 755	5 Paris		
5508	France	EMEA	Da Cunha		Daniel Me	dium								
10145	45	83.26		3746.7	Shipped 3	8	2003	Motorcycles	95	S10_1678	6265557265	Pasadena	CA	
90003	USA	NA	Young	Julie	Medium									
10159	49	100.0	14	5205.27	Shipped 4	10	2003	Motorcycles	95	S10_1678	6505551386	San Francisco	CA	
	USA	NA	Brown	Julie	Medium									
10168	36	96.66	1	3479.76	Shipped 4	10	2003	Motorcycles	95	S10_1678	6505556809	Burlingame	CA	
94217	USA	NA	Hirano	Juri	Medium									
10180	29	86.13			Shipped 4	11	2003	Motorcycles	95	S10_1678	20.16.1555	Lille	59	
000	France	EMEA	Rance	Martine										
10188	48	100.0	1		Shipped 4	11	2003	Motorcycles	95	S10_1678	+47 2267 3215	Bergen	N	
5804	Norway	EMEA	0eztan	Veysel										
10201	22	98.57	2		Shipped 4	12	2003	Motorcycles	95	S10_1678	6505555787	San Francisco	CA	
	USA	NA	Murphy		Small									
10211	41	100.0	14	4708.44	Shipped 1	1	2004	Motorcycles	95	S10_1678	(1) 47.55.6555	Paris	75	

4) Create an internal hive table which will store data in ORC format "sales_order_orc"

Solution:

create table sales_order_orc (

ordernumber int, quantityordered int, priceeach int, orderlinenumber int, sales int, status string, qtr_id int, month_id int, year_id int, productline int, 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 terminated by ',' stored as orc; 5) Load data from "sales_order_csv" into "sales_order_orc Solution: insert overwrite table sales_order_orc select * from sales_order_cs 6) Perform below mentioned queries on "sales_order_orc" table a. Calculate total sales per year select year_id, sum(sales) from sales_order_orc group by year_id; b. Find a product for which maximum orders were placed select product_line, sum(quantityordered) as maxordere from sales_order_orc group by product_line order by maxordered desc limit 1; c. Calculate the total sales for each quarter select qtr_id, sum(sales) from sales_order_orc group by qtr_id; d. In which quarter sales was minimum select qtr id, sum(sales) from sales order orc group by qtr id order by qtr id asc limit 1; e. In which country sales was maximum and in which country sales was minimum select country, sum(sales) as tot_sales from sales_order_orc group by country order by tot_sales desc limit 1; select country, sum(sales) as tot_sales from sales_order_orc group by country order by tot_sales asc limit 1; f. Calculate quarterly sales for each city select qtr_id,city sum(sales) as qtr_sales from sales_order_orc group by qtr_id,city order by qtr_sales; g. Find a month for each year in which maximum number of quantities were sold select month id as max Q month from (select year id, month id, sum(quantityordered) as cnt from

sales_order_data_orc group by year_id,month_id sort by

month_id)as cc inner join (select year_id , max(count) as cnt from (select

year_id,month_id,sum(quantityordered) as count from sales_order_data_orc group by
year_id,month_id sort by month_id) as dd group by year_id)as ee where cc.cnt =ee.cnt;