**SQL – TAKE HOME LAB EXERCISE – 04**

**USE Orders SCHEMA:**

**PLEASE FIND LINK :DOWNLOAD ORDERS SCHEMA AND IMPORT IN MY SQL**

[**https://drive.google.com/open?id=15t6\_aO54J9iFPPirXLp9pUGcKGJ9NeYO**](https://drive.google.com/open?id=15t6_aO54J9iFPPirXLp9pUGcKGJ9NeYO)

1. **Write a Query to display the product id, product description and product price of products whose product id less than 1000 and that have the same price more than once.**

**(USE SUB-QUERY)(15 ROWS)[NOTE:PRODUCT TABLE]**

1. **Write a query to display product class description ,total quantity(sum(product\_quantity),**

**Total value (product\_quantity \* product price) and show which class of products have been shipped highest to countries outside India other than USA? Also show the total value of those items.**

**(1 ROWS)[NOTE:PRODUCT TABLE,ADDRESS TABLE,ONLINE\_CUSTOMER TABLE,ORDER\_HEADER TABLE,ORDER\_ITEMS TABLE,PRODUCT\_CLASS TABLE]**

1. **Write a query to display the customer id, customer first name, address line 2,city total sales(sum(product quantity \* product price (0 if they haven't purchased any item)) made by customers who stay in the same locality (i.e. same address\_line2 & city). (USE SUB-QUERY)**

**(4 ROWS)**

**[NOTE : ADDRESS,ONLINE\_CUSTOMER,ORDER\_HEADER,ORDER\_ITEMS,PRODUCT]**

1. **Write a Query to display product id,product description,totalquantity(sum(product quantity) For a given item whose product id is 201 and which item has been bought along with it maximum no. of times.**

**(USE SUB-QUERY)(1 ROW)[NOTE : ORDER\_ITEMS TABLE,PRODUCT TABLE]**

1. **Write a Query to display the month,total quantity(sum(product quantity)) and show during which month of the year do foreign customers tend to buy max. no. of products.**

**(USE-SUB-QUERY)**

**(1ROW)[NOTE:ORDER\_ITEMSTABLE,ORDER\_HEADERTABLE,ONLINE\_CUSTOMER TABLE,ADDRESS TABLE]**

1. **Write a Query to display customer id,customer firstname,lastname,order status,total value(sum(product quantity \* product price)) and show who is the most valued customer (customer who made the highest sales)**

**(1 ROW) [NOTE: ONLINE\_CUSTOMER TABLE, ORDER\_HEADER TABLE, ORDER\_ITEMS TABLE, PRODUCT TABLE]**

1. **Write a query to display product class code,product class desc,product id product description,product price and show the most expensive products in their respective classes.**

**(16 ROWS)[NOTE : PRODUCT TABLE,PRODUCT CLASS TABLE]**

1. **Write a query to display shipper id,shipper name , (len\*width\*height\*product\_quantity) as total volume shipped and show Which shipper has shipped highest volume of items.**

**(1 ROW) [NOTE : SHIPPER TABLE,ORDER\_HEADER TABLE,ORDER\_ITEMS TABLE,PRODUCT TABLE]**

1. **Write a query to display carton id ,(len\*width\*height) as carton\_vol and identify the optimum carton (carton with the least volume whose volume is greater than the total volume of all items) for a given order whose order id is 10006 , Assume all items of an order are packed into one single carton (box) .(1 ROW)[NOTE : CARTON TABLE]**
2. **Write a query to display product id,product**

**description,total\_quantity (sum(order\_quantity) ,**

**Provided show the most and least sold products**

**(quantity-wise).(3 ROWS)(USE:SUB-QUERY)**