

## -:: DBMS LAB ASSIGNMENT - 1::-

### **QUESTION:**

A) Define the schema for the following databases with specific data type and constraints, the table name and its fields name are to be taken from database description which are given below :

A database is being constructed for storing **sales information system**. A **product** can be described with a **unique product number**, **product name**, **selling price**, **manufacturer name**. The product can sale to a particular **client** and each client have it own **unique client number**, **client name**, **client addresses**, **city**, **pin code**, **state** and **total balance to be required to paid**. Each client order to buy product from the salesman. In the **order**, it has **unique sales order number**, **sales order date**, **client number**, **salesman number (unique)**, **billed whole payment by the party or not** and **its delivery date**. The **salesman** have the **name**, **addresses**, **city**, **pin code**, **state**, **salary of the sales man**, **delivery date**, **total quantity ordered**, **product rate**.

Write the SQL queries for the following –

- (a) Retrieve the list of names and the cities of all the clients.
- (b) List the various products available.
- (c) Find the names of all clients having ‘a’ as the second letter in their names.
- (d) List all the clients who are located in TEZPUR.
- (e) Find the products whose selling price is greater than 2000 and less than or equal to 5000
- (f) Add a new column NEW\_PRICE into the product\_master table.
- (g) Rename the column product\_rate of Sales\_Order\_Details to new\_product\_rate.
- (h) List the products in sorted order of their description.
- (i) Display the order number and date on which the clients placed their order.
- (j) Delete all the records having delivery date before 25th August, 2008.
- (k) Change the delivery date of order number ON01008 to 16-08-08
- (l) Change the bal\_due of client\_no CN01003 to 1200
- (m) Find the product with description as ‘HDD1034’ and ‘DVDRW’
- (n) List the names, city and state of the clients not in the state of ‘ASSAM’
- (o) List of all orders that were canceled in the of March.

### Command to Create Tables:-

Create table **product** (product\_id varchar(10) primary key, product\_name varchar(20), manufacturer\_name char(20), product\_rate number(9,4), sell\_price number(9,4), product\_description varchar(25));

Create table **client** (client\_id varchar(10) primary key, client\_name char(20), address varchar(15), city char(15), pin number(8), state char(15), bal\_due number(9,4));

Create table **salesman** (salesman\_id varchar(10) primary key, salesman\_name char(20), address varchar(15), city char(15), pin number(8), state char(15), salary number(9,4));

Create table **sales\_order\_details** (sales\_order\_no varchar(10) primary key, sales\_order\_date date, client\_id varchar(10) references client(client\_id), salesman\_id varchar(10) references salesman(salesman\_id), bill\_payby\_party char(5), delivery\_date date, product\_rate number(9,4), tot\_quantity\_order number(8), cancel\_date date default NULL);

## Data to be Insert

### product

('p001','lux\_soap','Lux\_international','15.67','20.43','soap');  
('p002','copy','times\_copy\_org','14.80','16.40','copy');  
('p003','marry\_biscuit','marigold\_org','2218.80','2220.40','buiskit');  
('p004','mitsubisi\_pen','pen\_international','2015.67','2120.43','pen');  
('p005','learn\_books','book\_world','5104.80','5116.40','book');  
('p006','tata\_steel','tata\_org','5118.80','5120.40','tata');  
('p007','seagate hdd','seaget\_world','5104.80','5116.40','**HDD1034**');  
('p008','dvd writer','frontec\_org','5118.80','5120.40','**DVDRW**');

### client

('cn01001','alak roy','b.d.para','amarpur','799101','tripura','390.9');  
('cn01002','suman roy','puk para','agartala','799102','tripura','2390.9');  
('cn01004','priya das','chora para','kamalpur','799301','tripura','1390.9');  
('cn01005','mita mia','kamal para','singur','799721','tripura','190.9');  
('cn01006','pulak roy','bircity','sonitpur','799141','assam','110.9');  
('cn01007','munni das','nappam','sonitpur','799152','assam','190.9');  
('cn01008','kusum roy','city\_dos','tezpur','799141','assam','110.9');  
('cn01009','mina das','pachmile','tezpur','799152','assam','190.9');  
('cn01003','moytree nayak','pachmile','tezpur','799152','assam','9990.9');  
('cn01010','pauri mia','pachmile','tezpur','799152','assam','2990.9');  
('cn01011','manali das','satmile','tezpur','799154','assam','3990.9');

### salesman

('s001','Rohan das','nappam','Tezpur','79970','Assam','8000');  
('s002','Rohan das','nappam','Tezpur','799170','Assam','8000');  
('s003','Smita das','nirjuli','itanagar','799701','Arunachal','9000');  
('s004','Kabir bora','nappam','Tezpur','799703','Assam','8500');  
('s005','Neha singh','borbota','sonitpur','795970','assam','9600');  
('s006','Priya agarwal','gandhi road','32 distric','799750','delhi','9900');  
('s007','Ashok Paul','filmcity','munnaabari','799740','mumbai','8900');

### sales\_order\_details

('on01001','01-aug-2008','cn01001','s001','yes','20-aug-2008','2220.40','50','');  
('on01002','12-aug-2008','cn01004','s001','yes','23-aug-2008','2220.40','15','');  
('on01003','12-aug-2008','cn01005','s003','yes','26-aug-2008','2220.40','10','');  
('on01004','13-aug-2008','cn01004','s001','yes','20-aug-2008','2220.40','15','');  
('on01005','14-aug-2008','cn01002','s002','no','30-aug-2008','2220.40','52','28-march-2008');  
('on01006','15-aug-2008','cn01001','s001','yes','31-aug-2008','2220.40','53','');  
('on01007','16-jan-2008','cn01003','s004','yes','28-aug-2008','2220.40','54','');  
('on01008','01-feb-2008','cn01004','s003','no','28-aug-2008','8220.40','54','18-march-2008');