

-:: DBMS 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');