**EXPERIMENT-1**

**Title:** To understand DDL and DML commands

**Objective:** To understand the concept of designing issue related to the database with creating, populating the tables. Also familiarize students with different ways of manipulation in database.

**1. Create the tables:**

**Table name:** CLIENT1

use lab\_work;

CREATE TABLE CLIENT1 (

Colunmn\_name varchar(10),

Name1 varchar(50),

ADDRESS1 varchar(30),

ADDRESS2 varchar(30),

CITY varchar(15),

PINCODE int,

STATE varchar(15),

BALDUE decimal(10,2)

);

**Table Name:** PRODUCT\_MASTER

use lab\_work;

CREATE TABLE PRODUCT\_Master (

PRODUCTNO varchar(10),

DESCRIPTION1 varchar(50),

PROFITPERCENT decimal(4,2),

UNIT\_MEASURE varchar(30),

QTYONHAND int,

REORDERL\_VL int,

SELLPRICE decimaL (8,2),

COSTPRICE decimal(10,2)

);

**Table Name:** SALESMAN\_MASTER

use lab\_work;

CREATE TABLE SALESMAN\_Master (

SALESMANNO varchar(10),

SALESMANName varchar(50),

ADDRESS1 varchar(30),

ADDRESS2 varchar(30),

CITY varchar(15),

PINCODE int,

STATE varchar(15)

);

**2. Insert the data into their respective tables:**

**CLIENT1**

use lab\_work;

INSERT INTO CLIENT1

VALUES('C00001', 'Ivan bayross','ANDHERI ','EAST', 'Mumbai', 400054, 'Maharashtra', 15000),

('C00002', 'Mamta muzumdar', 'Shanthi Colony Main Road','AI Block','Madras', 780001, 'Tamil nadu', 0),

('C00003', 'Chhaya bankar','ANDHERI','WEST', 'Mumbai', 400057 ,'Maharashtra' ,5000),

('C00004', 'Ashwini joshi', 'Sarvepalli Radhakrishnan Rd','Soladevanahalli', 'Bangalore', 560001, 'Karnataka', 0),

('C00005', 'Hansel colaco', 'Goregaon', 'WEST', 'Mumbai', 400060, 'Maharashtra', 2000),

('C00006', 'Deepak sharma','Sturrock Rd','Attavar', 'Mangalore', 560050 ,'Karnataka', 0);

**PRODUCT\_MASTER**

use lab\_work;

INSERT INTO PRODUCT\_Master

VALUES('P00001', 'T-Shirt', 5 ,'Piece', 200,50, 350, 250),

('P0345', 'Shirts', 6, 'Piece', 150 ,50 ,500, 350),

('P06734' ,'Cotton jeans' ,5 ,'Piece' ,100 ,20 ,600,450),

('P07865' ,'Jeans', 5 ,'Piece', 100, 20, 750, 500),

('P07868' ,'Trousers' ,2 ,'Piece' ,150 ,50 ,850 ,550),

('P07885', 'Pull Overs', 2.5, 'Piece', 80, 30, 700, 450),

('P07965', 'Denim jeans' ,4 ,'Piece' ,100 ,40 ,350 ,250),

('P07975', 'Lycra tops', 5, 'Piece', 70, 30 ,300, 175),

('P08865' ,'Skirts ',5 ,'Piece' ,75 ,30 ,450 ,300);

**SALESMAN\_MASTER**

use lab\_work;

INSERT INTO SALESMAN\_Master

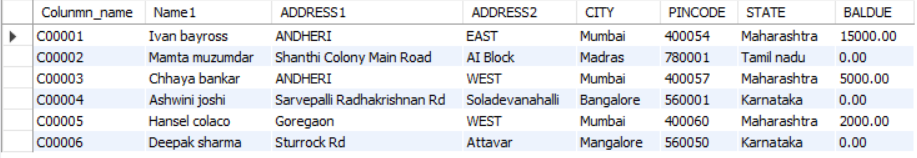
VALUES( 'S00001' ,'Aman' ,'A/14','Worli','Mumbai',400002,'Maharashtra'),

('S00002', 'Omkar','65','Nariman', 'Mumbai', 400001, 'Maharashtra'),

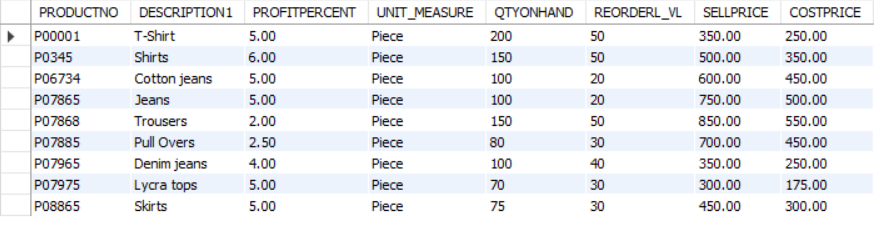
('S00003' ,'Raj' ,'P-7', 'Bandra','Mumbai',400032 ,'Maharashtra'),

('S00004' ,'Ashish' ,'A/5','Juhu','Mumbai',400044 ,'Maharashtra');

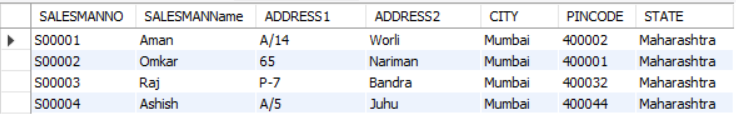
**Output**



**CLIENT1**



**PRODUCT\_Master**



**SALESMAN\_Master**

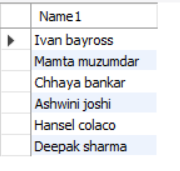
**3. Exercise on retrieving records from a table**

a. Find out the names of all the clients.

use lab\_work;

select Name1 from CLIENT1;

**Output:**

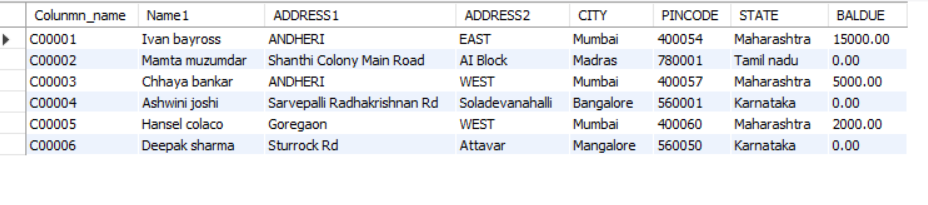


b. Retrieve the entire contents of the Client\_Master table

use lab\_work;

select \* from CLIENT1 ;

**Output:**

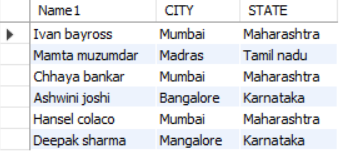


c. Retrieve the list of names, city and the state of all the clients.

use lab\_work;

select Name1,CITY,STATE from CLIENT1;

**Output:**

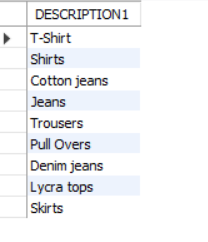


d. List the various products available from the Product\_Master table.

use lab\_work;

select DESCRIPTION1 from PRODUCT\_Master;

**Output:**

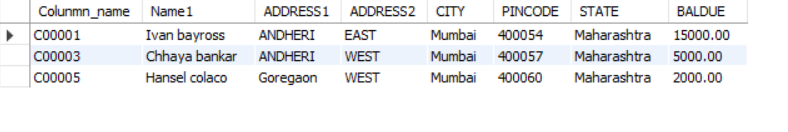


e. List all the clients who are located in Mumbai.

use lab\_work;

select \* from CLIENT1 where CITY = 'Mumbai';

**Output:**



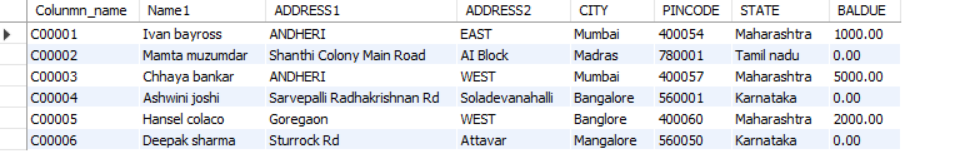
**4. Exercise on updating records in a table**

a. Change the city of ClientNo ‘C00005’ to ‘Bangalore’

use lab\_work;

update CLIENT1 set CITY = 'Banglore' where Colunmn\_name = 'C00005';

**Output:**

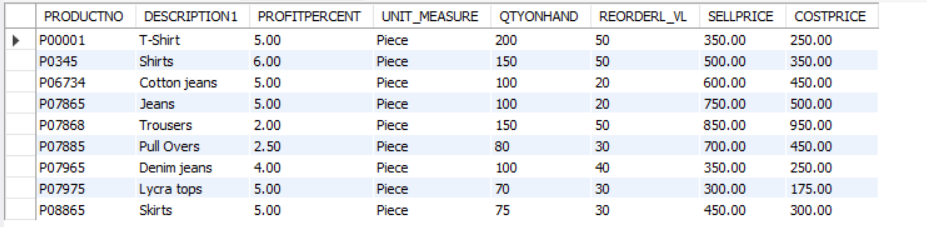


b. Change the BalDue of ClientNo ‘C00001’ to Rs.1000.

use lab\_work;

update CLIENT1 set BALDUE = 1000 where Colunmn\_name = 'C00001';

**Output:**

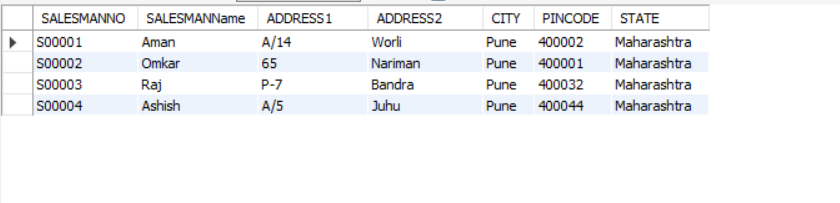


c. Change the city of the salesman to Pune.

use lab\_work;

update SALESMAN\_Master set CITY = 'Pune' ;

**Output:**



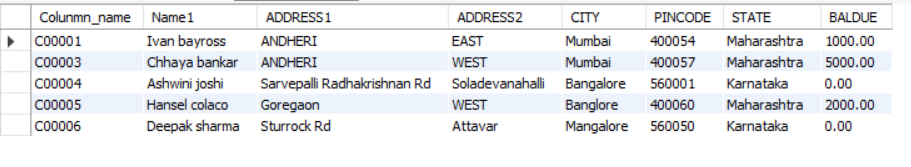
**5. Exercise on deleting records in a table**

a. Delete all products from Product\_Master where the quantity on hand is equal to 100

use lab\_work;

DELETE FROM PRODUCT\_Master where QTYONHAND =100;

**Output:**

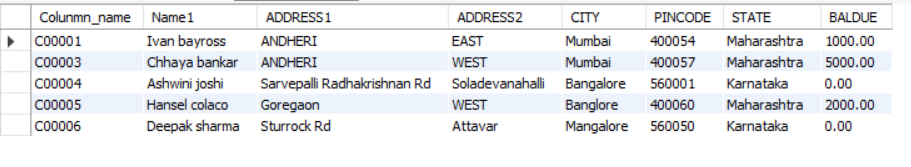


b. Delete from Client1 where the column state holds the value ‘Tamil Nadu’

use lab\_work;

DELETE FROM CLIENT1 where STATE ='Tamil nadu';

**Output:**



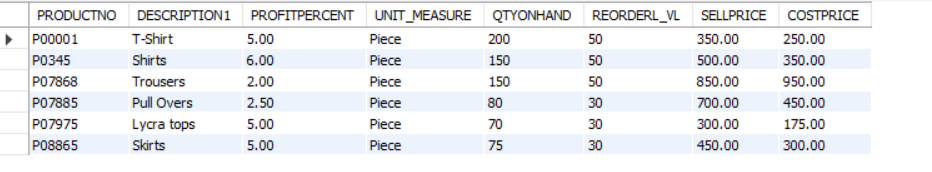
**6. Exercise on altering the table structure**

a. Add a column called ‘Telephone’ of data type integer to the Client\_Master table

use lab\_work;

alter Table CLIENT1 Add telephone int(10);

**Output:**



b. Change the size off SellPrice column in Product \_Master to 10, 2.

use lab\_work;

alter Table PRODUCT\_Master Modify SELLPRICE decimaL (10,2);

**7. Exercise on deleting the table structure along with the data**

a. Destroy the table Client1 along with its data.

use lab\_work;

DROP TABLE CLIENT1;

**8. Exercise on renaming the table**

a. Change the name of the Salesman\_Master to sman\_mast

use lab\_work;

Alter Table SALESMAN\_Master Rename to sman\_mast;