**Experiment 4 – 2nd Part**

**Queries:**

--Creating The Database

create database DBMS\_Lab2;

-- To Changes the database context to the specified database or database snapshot in SQL Server

use DBMS\_Lab2;

--Creating The Tables And Inserting Values In It

--Creating Tables

CREATE TABLE client\_master(client\_no VARCHAR(6), name VARCHAR(20), address\_1 VARCHAR(30), address\_2 VARCHAR(30),

city VARCHAR(15), pincode NUMERIC(6), state VARCHAR(15), bal\_due NUMERIC(10,2));

CREATE TABLE product\_master(product\_no VARCHAR(6), description VARCHAR(20), profit\_percent NUMERIC, unit\_measure VARCHAR(10),

qty\_on\_hand NUMERIC, reorder\_lv1 NUMERIC, sell\_price NUMERIC, cost\_price NUMERIC);

--Inserting Values In The Table

insert into client\_master values('0001', 'Ivan', 'n/a', 'n/a', 'Bombay', 400054, 'Maharashtra', 1500);

insert into client\_master values('0002', 'Vandana', 'n/a', 'n/a', 'Madras', 780001, 'Tamilnadu', 0);

insert into client\_master values('0003', 'Pramada', 'n/a', 'n/a', 'Bombay', 400057, 'Maharashtra', 5000);

insert into client\_master values('0004', 'Basu', 'n/a', 'n/a', 'Bombay', 400056, 'Maharashtra', 0);

insert into client\_master values('0005', 'Ravi', 'n/a', 'n/a', 'Delhi', 100001, 'n/a' , 2000);

insert into client\_master values('0006', 'Rukmini', 'n/a', 'n/a', 'Bombay', 400050, 'Maharashtra', 0);

insert into product\_master values('P00001', '1.44floppies', 5, 'piece', 100, 20, 525, 500);

insert into product\_master values('P03453', 'Monitors', 6, 'piece', 10, 3, 12000, 11200);

insert into product\_master values('P06734', 'Mouse', 5, 'piece', 20, 5, 1050, 500);

insert into product\_master values('P07865', '1.22 floppies', 5, 'piece', 100, 20, 525, 500);

insert into product\_master values('P07868', 'Keyboards', 2, 'piece', 10, 1500, 3150, 3050);

insert into product\_master values('P07885', 'CD Drive', 2.5, 'piece', 10, 3, 5250, 5100);

insert into product\_master values('P07965', '540 HDD', 4, 'piece', 10, 3, 8400, 8000);

insert into product\_master values('P07975', '1.44 Drive', 5, 'piece', 10, 3, 1050, 1000);

insert into product\_master VALUES('P08865', '1.22 Drive' , 5, 'piece', 2, 3, 1050, 1000);

--Displaying The Tables

select \* from client\_master;

select \* from product\_master;

--Query 1

--Step 1

ALTER TABLE client\_master ALTER COLUMN client\_no varchar(6) NOT NULL;

ALTER TABLE client\_master ALTER COLUMN name VARCHAR(20) NOT NULL;

ALTER TABLE client\_master ALTER COLUMN address\_1 VARCHAR(30) NOT NULL;

ALTER TABLE client\_master ALTER COLUMN address\_2 VARCHAR(30) NOT NULL;

ALTER TABLE client\_master ALTER COLUMN city VARCHAR(15) NOT NULL;

ALTER TABLE client\_master ALTER COLUMN pincode NUMERIC(6) NOT NULL;

ALTER TABLE client\_master ALTER COLUMN state VARCHAR(15) NOT NULL;

ALTER TABLE client\_master ALTER COLUMN bal\_due NUMERIC(10,2) NOT NULL;

--Step 2

alter table client\_master add constraint client\_master\_pk primary key (client\_no);

--Query 2

alter table client\_master add phone\_number numeric(10);

--Query 3

alter table product\_master alter column description VARCHAR(20) NOT NULL;

alter table product\_master alter column profit\_percent NUMERIC not null;

alter table product\_master alter column sell\_price NUMERIC not null;

alter table product\_master alter column cost\_price NUMERIC not null;

--Query 4

ALTER TABLE dbo.client\_master DROP CONSTRAINT client\_master\_pk;

ALTER TABLE client\_master alter column client\_no varchar(10) NOT NULL;

alter table client\_master add constraint client\_master\_pk primary key (client\_no);

--Query 5

select product\_no, description from product\_master where profit\_percent >= 20 and profit\_percent <= 30;

--Dropping The Tables

IF OBJECT\_ID ('dbo.client\_master','U') IS NOT NULL

DROP TABLE client\_master;

IF OBJECT\_ID ('dbo.product\_master','U') IS NOT NULL

DROP TABLE product\_master;

SET ansi\_warnings OFF

GO

--Dropping The Database

Drop DBMS\_Lab2;

**Output:**

A close-up of a graph

Description automatically generated with low confidence

Chart

Description automatically generated with low confidence

