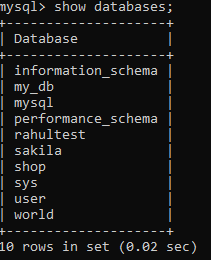
**CLASS ASSIGNMENT 1**

**Basic Table Creation, Data Insertion, and Simple Queries**

**Create Database:**

*create database SHOP;*

**Output:**

**Create Tables:**

1. **CLIENT\_MASTER:**

*create table client\_master (*

*client\_no VARCHAR(6) NOT NULL,*

*name VARCHAR(20) NOT NULL,*

*address1 VARCHAR(30),*

*address2 VARCHAR(30),*

*city VARCHAR(15),*

*pincode INTEGER(8),*

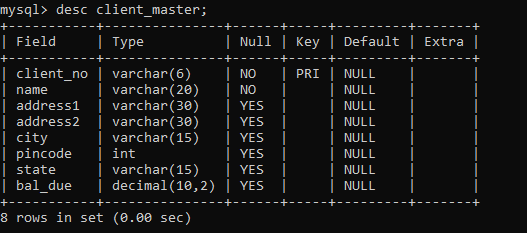
*state VARCHAR(15),*

*bal\_due DECIMAL(10,2),*

*PRIMARY KEY(client\_no)*

*);*

**OUTPUT:**



1. **PRODUCT\_MASTER:**

*create table product\_master(*

*product\_no VARCHAR(6) NOT NULL,*

*description VARCHAR(15) NOT NULL,*

*profit\_percentage DECIMAL(4,2) NOT NULL,*

*unit\_measure VARCHAR(10) NOT NULL,*

*qty\_on\_hand INT(8) NOT NULL,*

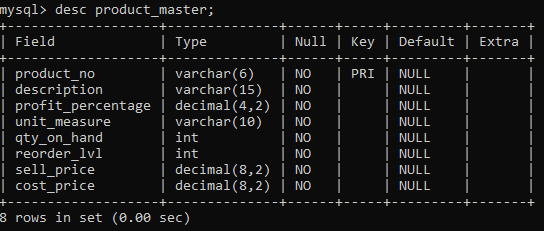
*reorder\_lvl INT(8) NOT NULL,*

*sell\_price DECIMAL(8,2) NOT NULL,*

*cost\_price DECIMAL(8,2) NOT NULL,*

*PRIMARY KEY(product\_no)*

*);*

 **OUTPUT:**

1. **SALESMAN\_MASTER:**

*create table salesman\_master(*

*salesman\_no VARCHAR(6) NOT NULL,*

*salesman\_name VARCHAR(20) NOT NULL,*

*address1 VARCHAR(30) NOT NULL,*

*address2 VARCHAR(30),*

*city VARCHAR(20),*

*pincode INT(8),*

*state VARCHAR(20),*

*sal\_amt DECIMAL(8,2) NOT NULL,*

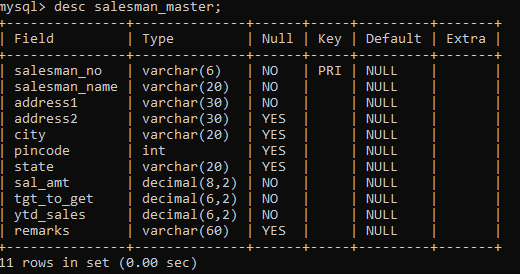
*tgt\_to\_get DECIMAL(6,2) NOT NULL,*

*ytd\_sales DECIMAL(6,2) NOT NULL,*

*remarks VARCHAR(60),*

*PRIMARY KEY(salesman\_no)*

*);*

**OUTPUT:**

1. **SALES\_ORDER:**

*create table sales\_order(*

*order\_no VARCHAR(6) NOT NULL,*

*client\_no VARCHAR(20) NOT NULL,*

*order\_date DATE NOT NULL,*

*dely\_addr VARCHAR(30),*

*salesman\_no VARCHAR(6) NOT NULL,*

*dely\_type CHAR(1) DEFAULT 'F',*

*bill\_yn CHAR(1),*

*dely\_date DATE,*

*order\_status VARCHAR(10),*

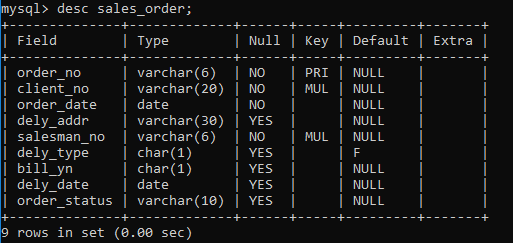
*PRIMARY KEY(order\_no),*

*FOREIGN KEY(client\_no) REFERENCES client\_master(client\_no),*

*FOREIGN KEY(salesman\_no) REFERENCES salesman\_master(salesman\_no)*

*);*

**OUTPUT:**



1. **SALES\_ORDER\_DETAILS:**

*create table sales\_order\_details(*

*order\_no VARCHAR(6),*

*product\_no VARCHAR(6),*

*qty\_ordered INT(8),*

*qty\_disp INT(8),*

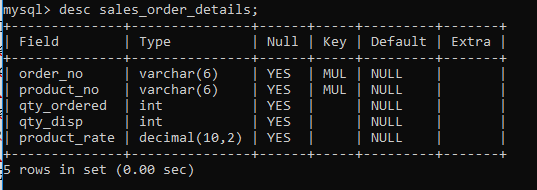
*product\_rate DECIMAL(10,2),*

*FOREIGN KEY(order\_no) REFERENCES sales\_order(order\_no),*

*FOREIGN KEY(product\_no) REFERENCES product\_master(product\_no)*

*);*

**OUTPUT:**



**Insert Data Into Table:**

1. **Insert into client\_master:**

*INSERT INTO client\_master (client\_no, name, address1, address2, city, pincode, state, bal\_due) VALUES*

*('C00001','Ivan Bayross','F -111',NULL,'Bombay','400054','Maharashtra',15000),*

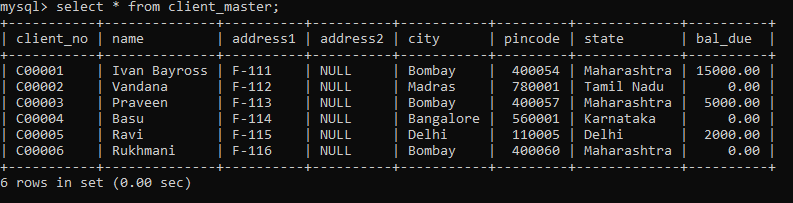
*('C00002','Vandana','F-112',NULL,'Madras','780001','Tamil Nadu',0),*

*('C00003','Praveen','F-113',NULL,'Bombay','400057','Maharashtra',5000),*

*('C00004','Basu','F-114',NULL,'Bangalore','560001','Karnataka',0),*

*('C00005','Ravi','F-115',NULL,'Delhi','110005','Delhi',2000),*

*('C00006','Rukhmani','F-116',NULL,'Bombay','400060','Maharashtra',0);*

**OUTPUT:**

1. **Insert into product\_master:**

*INSERT INTO product\_master (product\_no, description, profit\_percentage, unit\_measure, qty\_on\_hand, reorder\_lvl, sell\_price, cost\_price) VALUES*

*('P00001','1.44 Floppies',5,'Price',100,20,525,500),*

*('P00002','Monitors',6,'Price',10,3,12000,11280),*

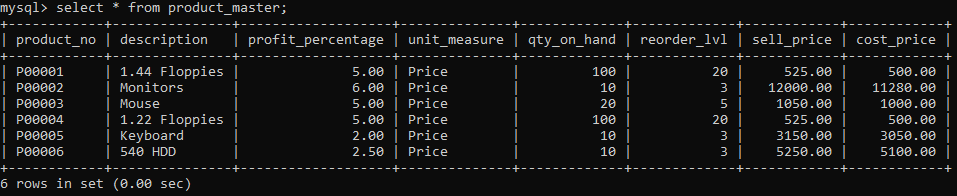
*('P00003','Mouse',5,'Price',20,5,1050,1000),*

*('P00004','1.22 Floppies',5,'Price',100,20,525,500),*

*('P00005','Keyboard',2,'Price',10,3,3150,3050),*

*('P00006','540 HDD',2.5,'Price',10,3,5250,5100);*

**OUTPUT:**



1. **Insert into salesman\_master:**

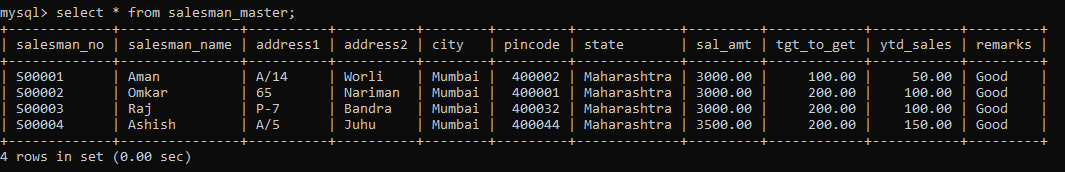
*INSERT INTO salesman\_master (salesman\_no, salesman\_name, address1, address2, city, pincode, state, sal\_amt, tgt\_to\_get, ytd\_sales, remarks) VALUES*

*('S00001','Aman','A/14','Worli','Mumbai',400002,'Maharashtra',3000,100,50,'Good')*

*('S00002','Omkar','65','Nariman','Mumbai',400001,'Maharashtra',3000,200,100,'Good'),*

*('S00003','Raj','P-7','Bandra','Mumbai',400032,'Maharashtra',3000,200,100,'Good'),*

*('S00004','Ashish','A/5','Juhu','Mumbai',400044,'Maharashtra',3500,200,150,'Good');*

**OUTPUT:**

1. **Insert into sales\_order:**

*INSERT INTO shop. sales\_order (order\_no , client\_no, order\_date, dely\_addr, salesman\_no, bill\_yn, dely\_date, order\_status) VALUES*

*('O19001','C00001',STR\_TO\_DATE('12-JUN-02', '%d-%b-%y' ) , NULL, 'S00001', 'N', STR\_TO\_DATE('20-JUL-02','%d-%b-%y'), 'In Process') ,*

*('O19003','C00003',STR\_TO\_DATE('18-FEB-02', '%d-%b-%y') , NULL, 'S00003', 'Y', STR\_TO\_DATE('20-FEB-02','%d-%b-%y'), 'Fulfilled') ,*

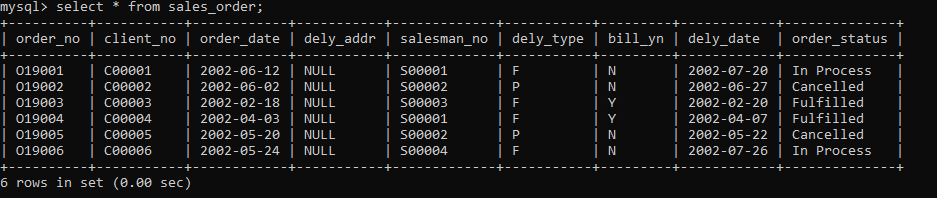
*('O19004','C00004',STR\_TO\_DATE('03-APR-02', '%d-%b-%y'), NULL, 'S00001', 'Y', STR\_TO\_DATE('07-APR-02','%d-%b-%y'), 'Fulfilled') ,*

*('O19006','C00006',STR\_TO\_DATE('24-MAY-02', '%d-%b-%y'), NULL, 'S00004', 'N', STR\_TO\_DATE('26-JUL-02','%d-%b-%y'), 'In Process') ;*

*INSERT INTO shop. sales\_order (order\_no, client\_no, order\_date, dely\_addr, salesman\_no, dely\_type, bill\_yn, dely\_date, order\_status) VALUES*

*('O19002','C00002',STR\_TO\_DATE('02-JUN-02', '%d-%b-%y'), NULL, 'S00002', 'P', 'N', STR\_TO\_DATE('27-JUN-02','%d-%b-%y'), 'Cancelled') ,*

*('O19005','C00005',STR\_TO\_DATE('20-MAY-02', '%d-%b-%y'), NULL, 'S00002', 'P', 'N', STR\_TO\_DATE('22-MAY-02','%d-%b-%y'), 'Cancelled');*

**OUTPUT:**

1. **Insert into sales\_order\_details:**

*INSERT INTO shop.sales\_order\_details (order\_no, product\_no, qty\_ordered, qty\_disp, product\_rate) VALUES*

*('O19001','P00001',4,4,525),*

*('O19001','P00006',2,1,5250),*

*('O19002','P00001',10,0,525),*

*('O19003','P00005',3,3,3150),*

*('O19003','P00006',3,1,5250),*

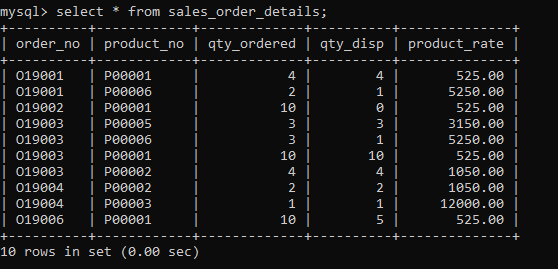
*('O19003','P00001',10,10,525),*

*('O19003','P00002',4,4,1050),*

*('O19004','P00002',2,2,1050),*

*('O19004','P00003',1,1,12000),*

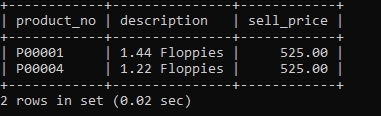
*('O19006','P00001',10,5,525);*

**OUTPUT:**

**Query Processing:**

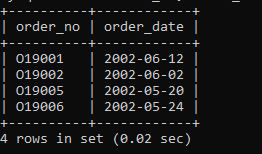
1. **List the product number, description, and the corresponding selling price for the products, with the selling price lying between Rs. 500 and Rs. 750.**

*SELECT product\_no, description, sell\_price FROM product\_master WHERE sell\_price BETWEEN 500 AND 750;*

**OUTPUT:**

1. **Display the order numbers and order dates for all the orders placed in the months of May and June.**

*SELECT order\_no, order\_date FROM sales\_order WHERE DATE\_FORMAT(order\_date, '%M') IN ('May', 'June');*

**OUTPUT:**

1. **List the product number, description, and aggregate quantities for the orders placed by ‘Ravi’ and ‘Basu.’**

*SELECT pm.product\_no, pm.description, sub.total\_qty\_ordered AS total\_qty\_ordered*

*FROM shop.product\_master pm*

*JOIN (*

*SELECT sod.product\_no, SUM(sod.qty\_ordered) AS total\_qty\_ordered*

*FROM shop.sales\_order\_details sod*

*WHERE sod.order\_no IN (*

*SELECT so.order\_no FROM shop.sales\_order so*

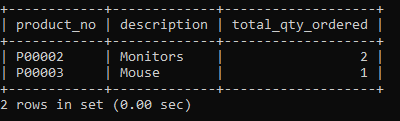
*WHERE so.client\_no IN (*

*SELECT cm.client\_no FROM shop.client\_master cm*

*WHERE cm.name IN ('RAVI', 'BASU')))*

*GROUP BY sod.product\_no )*

*AS sub ON pm.product\_no = sub.product\_no;*

**OUTPUT:**