**Institute of Computer Technology**

**B. Tech. Computer Science and Engineering**

**Semester: III**

**Sub: Database Management System**

**Course Code: 2CSE301**

**Practical Number:2**

**Objective:**

*Performing Deletion, Modifying, Altering, Updating and Viewing*

*records based on conditions on tables.*

* Scenario: Mohan is reviewing the work done till now and suggest IT Company to create one more table named Employee to have their records. They are applying CRUD Operation i.e. changes in table structure and data modified with different fields.

**Exercise:**

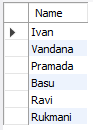
*Solve the following queries using the database given in practical 1.*

1. **Retrieving records from table.**
   1. **Find out the names of all clients.**

**Code :**

SELECT Name FROM client\_master;

**Output :**

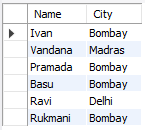


* 1. **Retrieve the list of names and the cities of all the clients**

**Code :**

SELECT Name, City FROM client\_master;

**Output :**

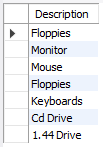
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* 1. **List the various products available from the product\_master table.**

**Code :**

SELECT Description FROM product\_master;

**Output :**

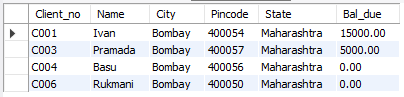


* 1. **List all the clients who are located in Bombay.**

**Code :**

SELECT \* FROM client\_master WHERE City = 'Bombay';

**Output :**



* 1. **Find the names of the salesman who have a salary equal to Rs. 3000**

**Code :**

SELECT S\_name FROM salesman\_master WHERE Sal\_amt = 3000;

**Output :**



* 1. **List out only unique values for the city of client\_master table**

**Code :**

SELECT DISTINCT City FROM client\_master;

**Output :**

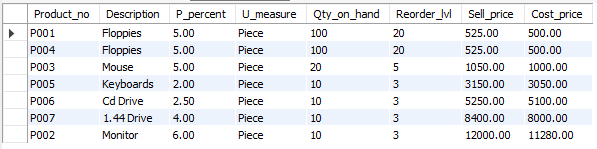
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* 1. **Display product\_master table according to the sell\_price of product.**

**Code :**

SELECT \* FROM product\_master ORDER BY Sell\_price;

**Output :**

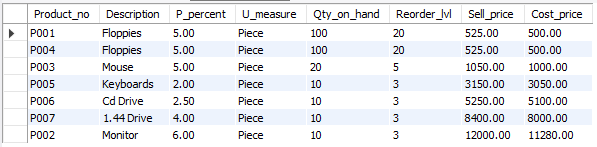
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* 1. **Display product\_master table according to the sell\_price and cost\_price.**

**Code :**

SELECT \* FROM product\_master ORDER BY Sell\_price, Cost\_price;

**Output :**

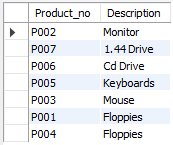
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* 1. **Display product\_no, description in descending order of sell\_price for product\_master table.**

**Code :**

SELECT Product\_no, Description FROM product\_master ORDER BY Sell\_price DESC;

**Output :**

****

1. **Updating records in a table.**

*(Without changing shafe mode=0 any of the update code is not possible)*

* 1. **Change the city of client\_no’C002’ to ‘Bombay’.**

**Code :**

UPDATE client\_master SET City = 'Bombay' WHERE Client\_no = 'C002';

**Output :**

****

* 1. **Change the bal\_due of client\_no’C001’ to Rs.1000**

**Code :**

UPDATE client\_master SET Bal\_due = 1000 WHERE Client\_no = 'C001';

**Output :**

****

* 1. **Change the cost price of Floppies to Rs. 950.00**

**Code :**

UPDATE product\_master SET Cost\_price = 950.00 WHERE Description = 'Floppies';

**Output :**

****

* 1. **Change the city of the salesman to Mumbai.**

**Code :**

UPDATE salesman\_master SET City = 'Mumbai';

**Output :**

****

1. **Deleting records in a table:**
   1. **Delete all salesman from the salesmane\_master whose salaries are equal to Rs. 3500.**

**Code :**

DELETE FROM salesman\_master WHERE Sal\_amt = 3500;

**Output :**

****

* 1. **Delete all products from product\_master where the quantity on hand is equal to 100.**

**Code :**

DELETE FROM product\_master WHERE Qty\_on\_hand = 100;

**Output :**

****

* 1. **Delete from client\_master where the column state holds the value ‘Tamil Nadu’.**

**Code :**

DELETE FROM client\_master WHERE State = 'Tamil Nadu';

**Output :**

****

1. **Altering the table structure:**
   1. **Add a column called ‘telephone’ of datatype ‘number’ and size=10 to the client\_master table.**

**Code :**

ALTER TABLE client\_master ADD COLUMN telephone VARCHAR(10);

**Output :**

****

* 1. **Change the size of sell\_price column in product\_master to 10,2.**

**Code :**

ALTER TABLE product\_master MODIFY COLUMN Sell\_price DECIMAL(10,2);

**Output :**

****

* 1. **Rename column telephone to new name as contact for client\_master table.**

**Code :**

ALTER TABLE client\_master CHANGE COLUMN telephone contact VARCHAR(10);

**Output :**

****

* 1. **Delete column contact from client\_master table.**

**Code :**

ALTER TABLE client\_master DROP COLUMN contact;

**Output :**

****

1. **Deleting the table structure along with data:**
   1. **Create table employee with 4 columns and 5 rows.**

**Code :**

CREATE TABLE employee (

Emp\_id INT,

Emp\_name VARCHAR(20),

Emp\_position VARCHAR(20),

Emp\_salary DECIMAL(8,2)

);

INSERT INTO employee (Emp\_id, Emp\_name, Emp\_position, Emp\_salary) VALUES

(1, 'John Doe', 'Manager', 50000.00),

(2, 'Jane Smith', 'Clerk', 20000.00),

(3, 'Robert Brown', 'Assistant', 25000.00),

(4, 'Linda White', 'HR', 30000.00),

(5, 'Michael Johnson', 'Accountant', 45000.00);

**Output :**

****

* 1. **Destroy the table employee along with its data.**

**Code :**

DROP TABLE employee;

**Output :**

****

1. **Renaming the table:**
   1. **Change the name of the salesman\_master table to sman\_mast.**

**Code :**

ALTER TABLE salesman\_master RENAME TO sman\_mast;

**Output :**

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