Institute of Computer Technology

B. Tech Computer Science and Engineering

Sub: Database Management System (2CSE301)

Practical 1: To create database and insert records in the tables.

Scenario: Mohan who is a Computer Engineer seeking to start Computer Parts & Accessories Shop. They are planning to build Website and Application for which they met with IT Professionals and gave their requirements to develop the same. Now based on information gathered, IT Company is initiating to create Database.

# A) Table Name: Client\_master

Description: Used to store information about clients.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Size** |
| Client\_no | Varchar | 6 |
| Name | Varchar | 20 |
| Ciy | Varchar | 15 |
| Pincode | Numeric | 8 |
| State | Varchar | 15 |
| Bal\_due | Numeric | 10,2 |

# B) Table Name: Product\_master

Description: Used to store information about products.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Size** |
| Product\_no | Varchar | 6 |
| Description | Varchar | 15 |
| P\_percent | Numeric | 4,2 |
| U\_measure | Varchar | 10 |
| Qty\_on\_hand | Numeric | 8 |
| Reorder\_lvl | Numeric | 8 |
| Sell\_price | Numeric | 8,2 |
| Cost\_price | Numeric | 8,2 |

# C) Table Name: Salesman\_master

Description: Used to store information about salesman working in the company.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Size** |
| S\_no | Varchar | 6 |
| S\_name | Varchar | 20 |
| City | Varchar | 20 |
| Pincode | Numeric | 8 |
| State | Varchar | 20 |
| Sal\_amt | Numeric | 8,2 |
| Tgt\_to\_get | Numeric | 6,2 |
| Ytd\_sales | Numeric | 6,2 |
| remarks | Varchar | 12 |

# A) Table Name: Client\_master

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Client\_no** | **Name** | **City** | **Pincode** | **State** | **Bal\_due** |
| C001 | Ivan | Bombay | 400054 | Maharashtra | 15000 |
| C002 | Vandana | Madras | 780001 | Tamil Nadu | 0 |
| C003 | Pramada | Bombay | 400057 | Maharashtra | 5000 |
| C004 | Basu | Bombay | 400056 | Maharashtra | 0 |
| C005 | Ravi | Delhi | 100001 | Gujarat | 2000 |
| C006 | Rukmani | Bombay | 400050 | Maharashtra | 0 |

# B) Table Name: Product\_master

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product\_ No | Description | P\_ percent | U\_  Measure | Qty\_on\_ hand | Reorder\_  lvl | sell\_ price | Cost\_ price |
| P001 | Floppies | 5 | Piece | 100 | 20 | 525 | 500 |
| P002 | Monitor | 6 | Piece | 10 | 3 | 12000 | 11280 |
| P003 | Mouse | 5 | Piece | 20 | 5 | 1050 | 1000 |
| P004 | Floppies | 5 | Piece | 100 | 20 | 525 | 500 |
| P005 | Keyboards | 2 | Piece | 10 | 3 | 3150 | 3050 |
| P006 | Cd Drive | 2.5 | Piece | 10 | 3 | 5250 | 5100 |
| P007 | 1.44 Drive | 4 | Piece | 10 | 3 | 8400 | 8000 |

# C) Table Name: Salesman\_master

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S\_no | S\_name | City | Pin | State | Sal\_ Amt | Tgt\_ to get | Ytd\_ Sales | Remarks |
| S001 | Kiran | Bombay | 400002 | Maharashtar | 3000 | 100 | 50 | Excellent |
| S002 | Manish | Bombay | 400001 | Maharashta | 3000 | 200 | 100 | Good |
| S003 | Ravi | Bombay | 400032 | Maharashta | 3000 | 200 | 100 | Average |
| S004 | Ashish | Bombay | 400044 | Maharashta | 3500 | 200 | 150 | Good |

**Exercise:**

1. Create database in mysql with your branch name and enrollment number.
2. Create table client\_master.
3. Create table product\_master.
4. Create table salesman\_master.
5. Describe structure for client\_master table.
6. Describe structure for product\_master table.
7. Describe structure for salesman\_master table.
8. Insert records in client\_master table.
9. Insert records in product\_master table.
10. Insert records in salesman\_master table.
11. Retrieve all records for client\_master table.
12. Retrieve product\_no, sell\_price and cost\_price for product\_master table.
13. Retrieve s\_no,s\_name, remarks and sal\_amt for salesman\_master table.
14. Display all tables for your database.

**Solutions: Commands**

create database cs\_22162171038;

use cs\_22162171038;

create table client\_master(Client\_no varchar(6),Name varchar(20),Ciy varchar(15),Pincode Numeric(8),State Varchar(15),Bal\_due Numeric(10,2));

create table product\_master(Product\_no Varchar(6),Description Varchar(15),P\_percent Numeric(4,2),U\_measure Varchar(10),Qty\_on\_hand Numeric(8),Reorder\_lvl Numeric(8),Sell\_price Numeric(8,2),Cost\_price Numeric(8,2));

create table salesman\_master(S\_no Varchar(6),S\_name Varchar(20),City Varchar(20),Pincode Numeric(8),State Varchar(20),Sal\_amt Numeric(8,2),Tgt\_to\_get Numeric(6,2),Ytd\_sales Numeric(6,2),remarks Varchar(12));

desc client\_master;

desc product\_master;

desc salesman\_master;

insert into client\_master values('C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);

insert into client\_master values('C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);

insert into client\_master values('C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);

insert into client\_master values('C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);

insert into client\_master values('C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

insert into client\_master values('C006', 'Rukmani', 'Bombay', 400050, 'Maharashtra', 0);

insert into product\_master values('P001', 'Floppies', 5, 'Piece', 100, 20, 525, 500);

insert into product\_master values('P002', 'Monitor', 6, 'Piece', 10, 3, 12000, 11280);

insert into product\_master values('P003', 'Mouse', 5, 'Piece', 20, 5, 1050, 1000);

insert into product\_master values('P004', 'Floppies', 5, 'Piece', 100, 20, 525, 500);

insert into product\_master values('P005', 'Keyboards', 2, 'Piece', 10, 3, 3150, 3050);

insert into product\_master values('P006', 'Cd Drive', '2.5', 'Piece', 10, 3 ,5250, 5100);

insert into product\_master values('P007', '1.44 Drive', 4, 'Piece', 10, 3, 8400, 8000);

insert into salesman\_master values('S001', 'Kiran', 'Bombay', 400002, 'Maharashtar', 3000, 100, 50, 'Excellent');

insert into salesman\_master values('S002', 'Manish', 'Bombay', 400001, 'Maharashta', 3000, 200, 100, 'Good');

insert into salesman\_master values('S003', 'Ravi', 'Bombay', 400032, 'Maharashta', 3000, 200, 100, 'Average');

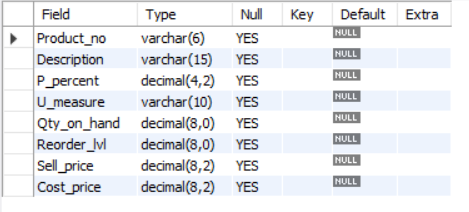
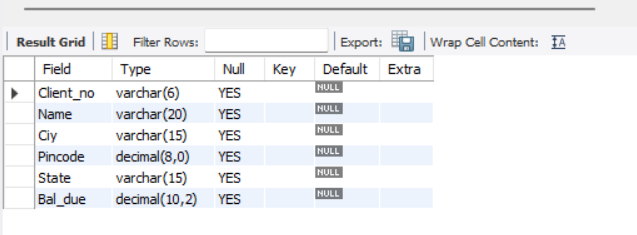
insert into salesman\_master values('S004', 'Ashish', 'Bombay', 400044, 'Maharashta', 3500, 200, 150, 'Good');

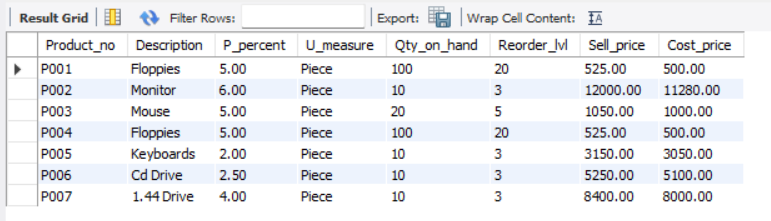
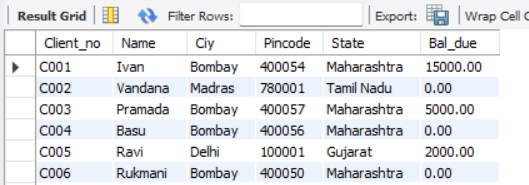
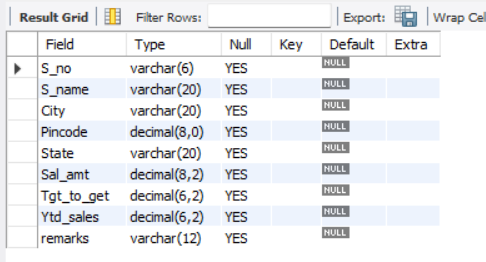
select \* from client\_master;

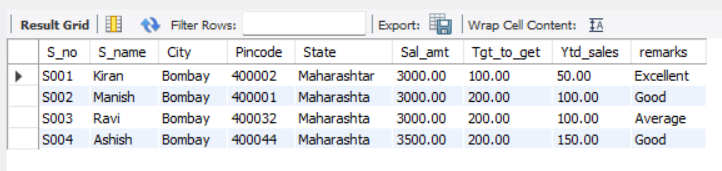
select \* from product\_master;

select \* from salesman\_master;

**Tables:**







**Commands Execution:**

