

Institute of Computer Technology
B. Tech. Computer Science and Engineering

Semester: III

Sub: Database Management System

Course Code: 2CSE301

Practical Number:1

Objective:

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.Method using a third variable:

Exercise:

1) Create database in mysql with your branch name and enrollment number.

Code :

```
CREATE DATABASE DBMS_ICT;  
  
USE DBMS_ICT;
```

Output :

✓	3	13:59:33	CREATE DATABASE DBMS_ICT	1 row(s) affected	0.016 sec
✓	4	13:59:33	USE DBMS_ICT	0 row(s) affected	0.000 sec

2) Create table client_master.

Code :

```
CREATE TABLE client_master (  
    Client_no VARCHAR(6),  
    Name VARCHAR(20),  
    City VARCHAR(15),  
    Pincode NUMERIC(8),  
    State VARCHAR(15),  
    Bal_due NUMERIC(10,2)
```

```
);
```

Output :

✓ 5 14:01:12 CREATE TABLE client_master (Client_no VARCHAR(6), Name VARCHAR(20), City VA... 0 row(s) affected 0.062 sec

3) Create table product_master.**Code :**

```
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)  
);
```

Output :

✓ 6 14:13:14 CREATE TABLE product_master (Product_no VARCHAR(6), Description VARCHAR(15), ... 0 row(s) affected 0.047 sec

4) Create table salesman_master.**Code :**

```
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)
);

```

Output :

7 14:15:28 CREATE TABLE salesman_master (S_no VARCHAR(6), S_name VARCHAR(20), City... 0 row(s) affected 0.031 sec

5) Describe structure for client_master table.

Code :

```
DESCRIBE client_master;
```

Output :

	Field	Type	Null	Key	Default	Extra
►	Client_no	varchar(6)	YES		NULL	
	Name	varchar(20)	YES		NULL	
	City	varchar(15)	YES		NULL	
	Pincode	decimal(8,0)	YES		NULL	
	State	varchar(15)	YES		NULL	
	Bal_due	decimal(10,2)	YES		NULL	

6) Describe structure for product_master table.

Code :

```
DESCRIBE product_master;
```

Output :

	Field	Type	Null	Key	Default	Extra
►	Product_no	varchar(6)	YES		NULL	
	Description	varchar(15)	YES		NULL	
	P_percent	decimal(4,2)	YES		NULL	
	U_measure	varchar(10)	YES		NULL	
	Qty_on_hand	decimal(8,0)	YES		NULL	
	Reorder_lvl	decimal(8,0)	YES		NULL	
	Sell_price	decimal(8,2)	YES		NULL	
	Cost_price	decimal(8,2)	YES		NULL	

7) Describe structure for salesman_master table.

Code :

```
DESCRIBE salesman_master;
```

Output :

	Field	Type	Null	Key	Default	Extra
►	S_no	varchar(6)	YES		NULL	
	S_name	varchar(20)	YES		NULL	
	City	varchar(20)	YES		NULL	
	Pincode	decimal(8,0)	YES		NULL	
	State	varchar(20)	YES		NULL	
	Sal_amt	decimal(8,2)	YES		NULL	
	Tgt_to_get	decimal(6,2)	YES		NULL	
	Ytd_sales	decimal(6,2)	YES		NULL	
	Remarks	varchar(12)	YES		NULL	

8) Insert records in client_master table.**Code :**

```
INSERT INTO client_master (Client_no, Name, City, Pincode, State, Bal_due)
VALUES
('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);
```

Output :

11 14:30:07 INSERT INTO client_master (Client_no, Name, City, Pincode, State, Bal_due) VALUES ('C00... 6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0

0.047 sec

9) Insert records in product_master table.**Code :**

```
INSERT INTO product_master (Product_no, Description, P_percent, U_measure,
Qty_on_hand, Reorder_lvl, Sell_price, Cost_price)
VALUES
('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);
```

Output :

12 14:31:26 INSERT INTO product_master (Product_no, Description, P_percent, U_measure, Qty_on_h... 7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0 0.000 sec

10) Insert records in salesman_master table.

Code :

```
INSERT INTO salesman_master (S_no, S_name, City, Pincode, State, Sal_amt,
Tgt_to_get, Ytd_sales, Remarks)
```

VALUES

```
('S001', 'Kiran', 'Bombay', 400002, 'Maharashtra', 3000, 100, 50, 'Excellent'),
('S002', 'Manish', 'Bombay', 400001, 'Maharashtra', 3000, 200, 100, 'Good'),
('S003', 'Ravi', 'Bombay', 400032, 'Maharashtra', 3000, 200, 100, 'Average'),
('S004', 'Ashish', 'Bombay', 400044, 'Maharashtra', 3500, 200, 150, 'Good');
```

Output :

13 14:32:01 INSERT INTO salesman_master (S_no, S_name, City, Pincode, State, Sal_amt, Tgt_to_get, ... 4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0 0.000 sec

11) Retrieve all records for client_master table.

Code :

```
SELECT * FROM client_master;
```

Output :

	Client_no	Name	City	Pincode	State	Bal_due
▶	C001	Ivan	Bombay	400054	Maharashtra	15000.00
	C002	Vandana	Madras	780001	Tamil Nadu	0.00
	C003	Pramada	Bombay	400057	Maharashtra	5000.00
	C004	Basu	Bombay	400056	Maharashtra	0.00
	C005	Ravi	Delhi	100001	Gujarat	2000.00
	C006	Rukmani	Bombay	400050	Maharashtra	0.00

12) Retrieve product_no, sell_price and cost_price for product_master table.

Code :

```
SELECT Product_no, Sell_price, Cost_price FROM product_master;
```

Output :

	Product_no	Sell_price	Cost_price
►	P001	525.00	500.00
	P002	12000.00	11280.00
	P003	1050.00	1000.00
	P004	525.00	500.00
	P005	3150.00	3050.00
	P006	5250.00	5100.00
	P007	8400.00	8000.00

13)Retrieve s_no,s_name, remarks and sal_amt for salesman_master table.

Code :

```
SELECT S_no, S_name, Remarks, Sal_amt FROM salesman_master;
```

Output :

	S_no	S_name	Remarks	Sal_amt
►	S001	Kiran	Excellent	3000.00
	S002	Manish	Good	3000.00
	S003	Ravi	Average	3000.00
	S004	Ashish	Good	3500.00

14)Display all tables for your database.

Code :

```
SHOW TABLES;
```

Output :

	Tables_in_dbms_jct
	client_master
	product_master
	salesman_master