

Advanced Database Management Systems

Experiment-1

To understand DDL and DML commands.

Aryan Mohan

500092142

Batch- 2

```
-- Insert values into the table
CREATE DATABASE Experiment1;
use Experiment1;

-- Create the tables
CREATE TABLE CLIENT_MASTER (
    CLIENTNO VARCHAR(6),
    NAME VARCHAR(20),
    ADDRESS1 VARCHAR(30),
    ADDRESS2 VARCHAR(30),
    PINCODE VARCHAR(15),
    STATE VARCHAR(18),
    BALDUE DECIMAL(10,2)
);

CREATE TABLE PRODUCT_MASTER (
    PRODUCTNO VARCHAR(6),
    DESCRIPTION VARCHAR(15),
    PROFITPERCENT DECIMAL(10,2),
    UNIT_MEASURE VARCHAR(10),
    QTYONHAND INT,
    REORDERLVL INT,
    SELLPRICE DECIMAL(10,2),
    COSTPRICE DECIMAL(10,2)
);

CREATE TABLE SALESMAN_MASTER (
    SALESMANNO VARCHAR(6),
    SALESMANNAME VARCHAR(20),
    ADDRESS1 VARCHAR(30),
    ADDRESS2 VARCHAR(30),
    CITY VARCHAR(20),
    PINCODE INTEGER,
    STATE VARCHAR(20),
    SALAMT REAL,
    TGTTOGET DECIMAL(10,2),
    YTDSALES DECIMAL(6,2),
    REMARKS VARCHAR(60),
    PRIMARY KEY (SALESMANNO)
);

-- Insert values into the
INSERT INTO CLIENT_MASTER VALUES
    ('C00001', 'Ivan Bayross', 'Mumbai', '', '400054', 'Maharashtra', 15000.00),
```

```

('C00002', 'Mamta Muzumdar', 'Madras', '', '780001', 'Tamil Nadu', 0.00),
('C00003', 'Chhaya Bankar', 'Mumbai', '', '400057', 'Maharashtra', 5000.00),
('C00004', 'Ashwini Joshi', 'Bangalore', '', '560001', 'Karnataka', 0.00),
('C00005', 'Hansel Colaco', 'Mumbai', '', '400060', 'Maharashtra', 2000.00),
('C00006', 'Deepak Sharma', 'Mangalore', '', '560050', 'Karnataka', 0.00);

-- Insert into PRODUCT_MASTER table
INSERT INTO PRODUCT_MASTER VALUES
('P00001', 'T-Shirts', 5, 'Piece', 200, 50, 350, 250),
('P0345', 'Shirts', 6, 'Piece', 150, 50, 500, 350),
('P06734', 'Cotton Jeans', 5, 'Piece', 100, 20, 600, 450),
('P07865', 'Jeans', 5, 'Piece', 100, 20, 750, 500),
('P07868', 'Trousers', 2, 'Piece', 150, 50, 850, 550),
('P07885', 'Pull Overs', 2.5, 'Piece', 150, 50, 850, 550),
('P07868', 'Denim Shirts', 4, 'Piece', 100, 40, 350, 250),
('P07868', 'Lycra Tops', 5, 'Piece', 70, 30, 300, 175),
('P07868', 'Skirts', 5, 'Piece', 75, 30, 450, 300);

INSERT INTO SALESMAN_MASTER 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');

-- Additional Exercises
-- Find out the names of all the clients
SELECT NAME FROM CLIENT_MASTER;

-- Retrieve the entire contents of the Client_Master table
SELECT * FROM CLIENT_MASTER;

-- Retrieve the list of names, city and the state of all the clients
SELECT NAME, CITY, STATE FROM CLIENT_MASTER;

-- List the various products available from the Product_Master table
SELECT PRODUCTNO, DESCRIPTION FROM PRODUCT_MASTER;

-- List all the clients who are located in Mumbai
SELECT CLIENTNO, NAME FROM CLIENT_MASTER WHERE CITY = 'Mumbai';

-- Find the names of salesman who have a salary equal to Rs.3000
SELECT SALESMANNAME FROM SALESMAN_MASTER WHERE SALAMT = 3000;

-- Change the city of ClientNo 'C00005' to 'Bangalore'
UPDATE CLIENT_MASTER SET CITY = 'Bangalore' WHERE CLIENTNO = 'C00005';

-- Change the BalDue of ClientNo 'C00001' to Rs. 1000
UPDATE CLIENT_MASTER SET BALDUE = 1000 WHERE CLIENTNO = 'C00001';

-- Change the cost price of 'Trousers' to Rs. 950.00
UPDATE PRODUCT_MASTER SET COSTPRICE = 950.00 WHERE DESCRIPTION = 'Trousers';

-- Change the city of the salesman to Pune
UPDATE SALESMAN_MASTER SET CITY = 'Pune';

-- Delete all salesman from the Salesman_Master whose salaries are equal to Rs.3500
DELETE FROM SALESMAN_MASTER WHERE SALAMT = 3500;

-- Delete all products from Product_Master where the quantity on hand is equal to 100
DELETE FROM PRODUCT_MASTER WHERE QTYONHAND = 100;

```

```
-- Delete from Client_Master where the column state holds the value 'Tamil Nadu'
DELETE FROM CLIENT_MASTER WHERE STATE = 'Tamil Nadu';
-- Add a column called 'Telephone' of data type integer to the Client_Master table
ALTER TABLE CLIENT_MASTER ADD TELEPHONE INT;

-- Change the size off SellPrice column in Product_Master to 10, 2
ALTER TABLE PRODUCT_MASTER MODIFY SELLPRICE FLOAT(10,2);

-- Destroy the table Client_Master along with its data
DROP TABLE CLIENT_MASTER;

-- Change the name of the table SALESMAN_MASTER to sman_mast
ALTER TABLE SALESMAN_MASTER RENAME to sman_mast;
```