

ASSIGNMENT 2

Viewing The Existing Databases, Switching to the Desired Database:

```
mysql> show databases;
+-----+
| Database |
+-----+
| 20bcs042 |
| demo1    |
| information_schema |
| mysql     |
| performance_schema |
| sys       |
+-----+
6 rows in set (0.04 sec)
```

Using 20BCS042 database and CREATING tables:

Creating Client Master Table:

```
mysql> CREATE TABLE Client_Master
-> (ClientNo VARCHAR(6),
-> Name VARCHAR(20),
-> Address1 VARCHAR(30),
-> Address2 VARCHAR(30),
-> City VARCHAR(15),
-> Pincode INT,
-> State VARCHAR(15),
-> BalDue INT(10));
Query OK, 0 rows affected, 1 warning (0.04 sec)
```

Creating Product Master Table:

```
mysql> CREATE TABLE Product_Master
-> (ProductNo VARCHAR(6),
-> ProductName VARCHAR(15),
-> Quantity INT(8),
-> Piece VARCHAR(10),
-> QtyOnHand INT(8),
-> Tax INT(8),
-> CostPrice INT(8),
-> SalePrice INT(8));
Query OK, 0 rows affected, 5 warnings (0.02 sec)
```

Inserting Values in Client Master Table and Product Master Table:

```
mysql> INSERT INTO Client_Master VALUES
-> ('C00001', 'Ivan Bayross', 'Address1', 'Address2', 'Mumbai', 400001, 'Maharashtra', 15000),
-> ('C00002', 'Mamta Muzumdar', 'Address1', 'Address2', 'Madras', 780001, 'Tamil Nadu', 0),
-> ('C00003', 'Chhaya Bankar', 'Address1', 'Address2', 'Mumbai', 400057, 'Maharashtra', 5000),
-> ('C00004', 'Ashwni Joshi', 'Address1', 'Address2', 'Bangalore', 560001, 'Karnataka', 0),
-> ('C00005', 'Hansei Colaco', 'Address2', 'Address2', 'Mumbai', 400060, 'Maharashtra', 2000),
-> ('C00006', 'Deepak Sharma', 'Address1', 'Address2', 'Mangalore', 560050, 'Karnataka', 0);
```

Query OK, 6 rows affected (0.01 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO Product_Master VALUES
-> ('P00001', 'T-Shirt', 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>,
-> (<'P07885', 'Trousers', 2, 'Piece', 150, 50, 850, 550>,
-> (<'P07868', 'Pull Overs', 2, 'Piece', 150, 50, 850, 550>,
-> (<'P07868', 'Denim Shirts', 4, 'Piece', 100, 40, 350, 250>,
-> (<'P07898', 'Lycra Tops', 5, 'Piece', 70, 30, 300, 175>,
-> (<'P07868', 'Skirts', 5, 'Piece', 75, 30, 450, 300>;

```

Query OK, 9 rows affected (0.01 sec)

Records: 9 Duplicates: 0 Warnings: 0

Exercise :3 Exercise on retrieving Data

a. Find Out the Name of all the Clients.

```

mysql> select All name
      -> from client_master;
+-----+
| name          |
+-----+
| Ivan Bayross  |
| Mamta Muzumdar |
| Chhaya Bankar |
| Ashwni Joshi  |
| Hansei Colaco |
| Deepak Sharma |
+-----+
6 rows in set (0.00 sec)

```

b. Retrieve the entire contents of the Client Master Table:

```
mysql> select * from client_master;
```

ClientNo	Name	Address1	Address2	City	Pincode	State	BalDue
C00001	Ivan Bayross	Address1	Address2	Mumbai	400001	Maharashtra	15000
C00002	Mamta Muzumdar	Address1	Address2	Madras	780001	Tamil Nadu	0
C00003	Chhaya Bankar	Address1	Address2	Mumbai	400057	Maharashtra	5000
C00004	Ashwni Joshi	Address1	Address2	Bangalore	560001	Karnataka	0
C00005	Hansei Colaco	Address2	Address2	Mumbai	400060	Maharashtra	2000
C00006	Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0

```
6 rows in set (0.00 sec)
```

c. Retrieve the list of names, city and the state of all the clients.

```
mysql> select Name, City, State  
-> from client_master;
```

Name	City	State
Ivan Bayross	Mumbai	Maharashtra
Mamta Muzumdar	Madras	Tamil Nadu
Chhaya Bankar	Mumbai	Maharashtra
Ashwni Joshi	Bangalore	Karnataka
Hansei Colaco	Bangalore	Karnataka
Deepak Sharma	Mangalore	Karnataka

```
6 rows in set (0.00 sec)
```

d. List the various products available from the Product Master Table:

```
mysql> select DISTINCT ProductName  
-> from product_master;
```

ProductName
T-Shirt
Shirts
Cotton Jeans
Jeans
Trousers
Pull Overs
Denim Shirts
Lycra Tops
Skirts

9 rows in set (0.00 sec)

e. List all clients who live in Mumbai:

```
mysql> select * from Client_master  
-> where city='Mumbai';
```

ClientNo	Name	Address1	Address2	City	Pincode	State	BalDue
C00001	Ivan Bayross	Address1	Address2	Mumbai	400001	Maharashtra	15000
C00003	Chhaya Bankar	Address1	Address2	Mumbai	400057	Maharashtra	5000
C00005	Hansei Colaco	Address2	Address2	Mumbai	400060	Maharashtra	2000

3 rows in set (0.00 sec)

Exercise 4: Exercise on updating the records in the table:

a. Change the city of Client No 'C00005' to 'Bangalore'.

```
mysql> update client_master set City='Bangalore', Pincode=560002, State='Karnataka'
-> where ClientNo='C00005';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from Client_master;
```

ClientNo	Name	Address1	Address2	City	Pincode	State	BalDue
C00001	Ivan Bayross	Address1	Address2	Mumbai	400001	Maharashtra	15000
C00002	Mamta Muzumdar	Address1	Address2	Madras	780001	Tamil Nadu	0
C00003	Chhaya Bankar	Address1	Address2	Mumbai	400057	Maharashtra	5000
C00004	Ashwni Joshi	Address1	Address2	Bangalore	560001	Karnataka	0
C00005	Hansei Colaco	Address2	Address2	Bangalore	560002	Karnataka	2000
C00006	Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0

6 rows in set (0.00 sec)

b. Change the Bal Due of Client No C0001 to Rs. 1000.

```
mysql> update client_master set BalDue=1000
-> where ClientNo='C00001';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from Client_master;
```

ClientNo	Name	Address1	Address2	City	Pincode	State	BalDue
C00001	Ivan Bayross	Address1	Address2	Mumbai	400001	Maharashtra	1000
C00002	Mamta Muzumdar	Address1	Address2	Madras	780001	Tamil Nadu	0
C00003	Chhaya Bankar	Address1	Address2	Mumbai	400057	Maharashtra	5000
C00004	Ashwni Joshi	Address1	Address2	Bangalore	560001	Karnataka	0
C00005	Hansei Colaco	Address2	Address2	Bangalore	560002	Karnataka	2000
C00006	Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0

6 rows in set (0.00 sec)

c. Change the Cost Price of Trousers to Rs. 950.

```
mysql> update product_master set costPrice=950
      -> where ProductName='Trousers';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from product_master;
```

ProductNo	ProductName	Quantity	Piece	QtyOnHand	Tax	CostPrice	SalePrice
P00001	T-Shirt	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
P07885	Trousers	2	Piece	150	50	950	550
P07868	Pull Overs	2	Piece	150	50	850	550
P07868	Denim Shirts	4	Piece	100	40	350	250
P07898	Lycra Tops	5	Piece	70	30	300	175
P07868	Skirts	5	Piece	75	30	450	300

```
9 rows in set (0.00 sec)
```

Exercise 5: Deleting the records in the table.

- a. Delete all products from Product_Master where the QtyOnHand is equal to 100.

```
mysql> select * from product_master;
```

ProductNo	ProductName	Quantity	Piece	QtyOnHand	Tax	CostPrice	SalePrice
P00001	T-Shirt	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
P07885	Trousers	2	Piece	150	50	950	550
P07868	Pull Overs	2	Piece	150	50	850	550
P07868	Denim Shirts	4	Piece	100	40	350	250
P07898	Lycra Tops	5	Piece	70	30	300	175
P07868	Skirts	5	Piece	75	30	450	300

```
9 rows in set (0.02 sec)
```

```
mysql> delete from product_master where QtyOnHand=100;
```

```
Query OK, 3 rows affected (0.01 sec)
```

```
mysql> select * from product_master;
```

ProductNo	ProductName	Quantity	Piece	QtyOnHand	Tax	CostPrice	SalePrice
P00001	T-Shirt	5	Piece	200	50	350	250
P0345	Shirts	6	Piece	150	50	500	350
P07885	Trousers	2	Piece	150	50	950	550
P07868	Pull Overs	2	Piece	150	50	850	550
P07898	Lycra Tops	5	Piece	70	30	300	175
P07868	Skirts	5	Piece	75	30	450	300

```
6 rows in set (0.00 sec)
```


b. Delete from Client where the column state ='Maharashtra'.

```
mysql> select * from client_master;
```

ClientNo	Name	Address1	Address2	City	Pincode	State	BalDue
C00001	Ivan Bayross	Address1	Address2	Mumbai	400001	Maharashtra	1000
C00002	Mamta Muzumdar	Address1	Address2	Madras	780001	Tamil Nadu	0
C00003	Chhaya Bankar	Address1	Address2	Mumbai	400057	Maharashtra	5000
C00004	Ashwni Joshi	Address1	Address2	Bangalore	560001	Karnataka	0
C00005	Hansei Colaco	Address2	Address2	Bangalore	560002	Karnataka	2000
C00006	Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0

```
6 rows in set (0.00 sec)
```

```
mysql> delete from client_master where State="Maharashtra";
```

```
Query OK, 2 rows affected (0.01 sec)
```

```
mysql> select * from client_master;
```

ClientNo	Name	Address1	Address2	City	Pincode	State	BalDue
C00002	Mamta Muzumdar	Address1	Address2	Madras	780001	Tamil Nadu	0
C00004	Ashwni Joshi	Address1	Address2	Bangalore	560001	Karnataka	0
C00005	Hansei Colaco	Address2	Address2	Bangalore	560002	Karnataka	2000
C00006	Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0

```
4 rows in set (0.00 sec)
```

Exercise 6: Altering the table structure.

- a. Add a column called 'Telephone' of data type 'number' and size '10' to the Client_Master table.

```
mysql> ALTER TABLE client_master
-> ADD Telephone INT(10);
Query OK, 0 rows affected, 1 warning (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

```
mysql> select * from client_master;
```

ClientNo	Name	Address1	Address2	City	Pincode	State	BalDue	Telephone
C00002	Mamta Muzumdar	Address1	Address2	Madras	780001	Tamil Nadu	0	NULL
C00004	Ashwni Joshi	Address1	Address2	Bangalore	560001	Karnataka	0	NULL
C00005	Hansei Colaco	Address2	Address2	Bangalore	560002	Karnataka	2000	NULL
C00006	Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0	NULL

4 rows in set (0.00 sec)

b. Change the size of Sale Price column Product_Master to 10,2.

```
mysql> describe product_master;
```

Field	Type	Null	Key	Default	Extra
ProductNo	varchar(6)	YES		NULL	
ProductName	varchar(15)	YES		NULL	
Quantity	int	YES		NULL	
Piece	varchar(10)	YES		NULL	
QtyOnHand	int	YES		NULL	
Tax	int	YES		NULL	
CostPrice	int	YES		NULL	
SalePrice	int	YES		NULL	

```
8 rows in set (0.04 sec)
```

```
mysql> ALTER TABLE product_master  
-> MODIFY COLUMN SalePrice DECIMAL(10,2);
```

```
Query OK, 6 rows affected (0.10 sec)
```

```
Records: 6 Duplicates: 0 Warnings: 0
```

```
mysql> describe product_master;
```

Field	Type	Null	Key	Default	Extra
ProductNo	varchar(6)	YES		NULL	
ProductName	varchar(15)	YES		NULL	
Quantity	int	YES		NULL	
Piece	varchar(10)	YES		NULL	
QtyOnHand	int	YES		NULL	
Tax	int	YES		NULL	
CostPrice	int	YES		NULL	
SalePrice	decimal(10,2)	YES		NULL	

```
8 rows in set (0.00 sec)
```

Exercise 7: Exercise on deleting the table structure.

a) Destroy table Client_Master along with its data.

```
mysql> show tables;
+-----+
| Tables_in_20bcs042 |
+-----+
| client_master       |
| department          |
| employee             |
| product_master      |
+-----+
4 rows in set (0.00 sec)

mysql> DROP TABLE client_master;
Query OK, 0 rows affected (0.01 sec)

mysql> show tables;
+-----+
| Tables_in_20bcs042 |
+-----+
| department          |
| employee             |
| product_master      |
+-----+
3 rows in set (0.01 sec)
```

Thank You