

Assignment No. 2

- Creating Table, 'Client_master' and inserting 10 sample values:

```
1 • USE clientdb;
2
3 • CREATE TABLE Client_master (
4     ClientNO VARCHAR(10),
5     Name VARCHAR(50),
6     Address VARCHAR(100),
7     City VARCHAR(50),
8     State VARCHAR(50),
9     bal_due FLOAT
10 );
11
12 • INSERT INTO Client_master (ClientNO, Name, Address, City, State, bal_due)
13 VALUES
14 ('C101', 'John Doe', '123 Main St', 'New York', 'NY', 4000.00),
15 ('C102', 'Jane Smith', '456 Elm St', 'Los Angeles', 'CA', 6000.00),
16 ('C103', 'Alice Johnson', '789 Oak St', 'Chicago', 'IL', 3000.00),
17 ('C104', 'Bob Williams', '101 Pine St', 'Houston', 'TX', 7000.00),
18 ('C105', 'Emily Brown', '202 Maple St', 'San Francisco', 'CA', 8000.00),
19 ('C106', 'Michael Lee', '303 Cedar St', 'Miami', 'FL', 2000.00),
20 ('C107', 'Sarah Davis', '404 Walnut St', 'Seattle', 'WA', 9000.00),
21 ('C108', 'David Wilson', '505 Birch St', 'Boston', 'MA', 1000.00),
22 ('C109', 'Jessica Taylor', '606 Spruce St', 'Dallas', 'TX', 500.00),
23 ('C110', 'Chris Evans', '707 Pineapple St', 'Atlanta', 'GA', 4500.00),
24 ('C123', 'Test Client', '123 Test St', 'Pune', 'MH', 0.00);
25
26 • SELECT * FROM Client_master;
```

- Find the names of clients whose bal_due > 5000 .

Sol.:

```
28 • SELECT Name
29 FROM Client_master
30 WHERE bal_due > 5000;
```

	Name
▶	Jane Smith
	Bob Williams
	Emily Brown
	Sarah Davis

2. Change the bal_due of ClientNO "C123" to Rs. 5100.

Sol.:

```
32 • UPDATE Client_master
33     SET bal_due = 5100.00
34     WHERE ClientNO = 'C123';
35
36 • SELECT * FROM Client_master WHERE ClientNO = 'C123';
```

	ClientNO	Name	Address	City	State	bal_due
►	C123	Test Client	123 Test St	Pune	MH	5100

3. Change the name of Client_master to Client12.

Sol.:

```
38 • ALTER TABLE Client_master
39     RENAME TO Client12;
40
```

4. Display the bal_due heading as "BALANCE" Client master table..

Sol.:

```
41 • SELECT ClientNO, Name, Address, City, State, bal_due AS BALANCE
42     FROM Client12;
43
```

	ClientNO	Name	Address	City	State	BALANCE
►	C101	John Doe	123 Main St	New York	NY	4000
	C102	Jane Smith	456 Elm St	Los Angeles	CA	6000
	C103	Alice Johnson	789 Oak St	Chicago	IL	3000
	C104	Bob Williams	101 Pine St	Houston	TX	7000
	C105	Emily Brown	202 Maple St	San Francisco	CA	8000
	C106	Michael Lee	303 Cedar St	Miami	FL	2000
	C107	Sarah Davis	404 Walnut St	Seattle	WA	9000
	C108	David Wilson	505 Birch St	Boston	MA	1000
	C109	Jessica Taylor	606 Spruce St	Dallas	TX	500
	C110	Chris Evans	707 Pineapple St	Atlanta	GA	4500
	C123	Test Client	123 Test St	Pune	MH	5100

5. Change the name of the relation to Customer_info.

Sol.:

```
44 • ALTER TABLE Client12
45     RENAME TO Customer_info;
46
```

6. Change the data type of the bal_due to Float and display with the name “Balance”.

Sol.:

```
47 • ALTER TABLE Customer_info
48     MODIFY COLUMN bal_due FLOAT;
49
50 • SELECT bal_due AS BALANCE FROM Customer_info;
```

	ClientNO	Name	BALANCE
▶	C101	John Doe	4000
	C102	Jane Smith	6000
	C103	Alice Johnson	3000
	C104	Bob Williams	7000
	C105	Emily Brown	8000
	C106	Michael Lee	2000
	C107	Sarah Davis	9000
	C108	David Wilson	1000
	C109	Jessica Taylor	500
	C110	Chris Evans	4500
	C123	Test Client	5100

7. Delete all the records but keep the table structure as it is.

Sol.:

```
52 • DELETE FROM Customer_info;
53 • DESC Customer_info;
```

	Field	Type	Null	Key	Default	Extra
▶	ClientNO	varchar(10)	YES		NULL	
	Name	varchar(50)	YES		NULL	
	Address	varchar(100)	YES		NULL	
	City	varchar(50)	YES		NULL	
	State	varchar(50)	YES		NULL	
	bal_due	float	YES		NULL	

8. Add the column Pin code in the table.

Sol.:

```
55 • ALTER TABLE Customer_info
56     ADD COLUMN Pincode VARCHAR(10);
57 • DESC Customer_info;
```

	Field	Type	Null	Key	Default	Extra
▶	ClientNO	varchar(10)	YES		NULL	
	Name	varchar(50)	YES		NULL	
	Address	varchar(100)	YES		NULL	
	City	varchar(50)	YES		NULL	
	State	varchar(50)	YES		NULL	
	bal_due	float	YES		NULL	
	Pincode	varchar(10)	YES		NULL	

9. Display the list of clients whose city is Pune.

Sol.:

```
59 • INSERT INTO Customer_info (ClientNO, Name, Address, City, State, bal_due, Pincode)
60 VALUES
61 ('C201', 'Mark Johnson', '123 Broadway St', 'San Diego', 'CA', 3000.00, '92101'),
62 ('C202', 'Karen White', '456 Oak St', 'Portland', 'OR', 4000.00, '97201'),
63 ('C203', 'Ryan Martinez', '789 Elm St', 'Austin', 'TX', 2500.00, '78701'),
64 ('C204', 'Emma Garcia', '101 Pineapple St', 'Pune', 'MH', 6000.00, '411001'),
65 ('C205', 'Kevin Brown', '202 Maplewood St', 'Chicago', 'IL', 3500.00, '60601');
66
67 • SELECT *
68 FROM Customer_info
69 WHERE City = 'Pune';
```

	ClientNO	Name	Address	City	State	bal_due	Pincode
►	C204	Emma Garcia	101 Pineapple St	Pune	MH	6000	411001