

**Information System Management Lab
BCOM 307**

Assignment #10

Submitted by:

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Class: B.COM(H)

Section: B.Com 5A

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Submitted to:

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Department of Commerce

Academic Year: 2020-21

Semester: Vth

Assignment No.10

Unit No:

Course/Subject Code: BCOM 307 Subject Title: Information System Management Lab

Issue Date:

Last Date of Submission:

Instructions for Students:

1. **All Questions are Compulsory.**
2. The student should attach proper cover page for each assignment clearly mentioning the Assignment No.
3. Each assignment should be prepared by the student individually with proper explanation and screenshots.
4. A4 size ruled sheets should be used for the assignment.
5. Assignment pages should be serially numbered at the bottom of page.

During online education mode, upload scanned copy of the complete assignment including cover page latest by due date.

| Question No. | Question | CO No. |
|--------------|--|------------|
| 1 | Find out the names of all the clients from client_master table. | CO1 |
| 2 | Retrieve the entire contents of client_master table. | |
| 3 | Change the city of client 104 to Bangalore, of client_master table | |
| 4 | Add a new column 'designation' in client_master table. | |
| 5 | Delete records from client_master table where state is Haryana. | |

ASSIGNMENT 10 - ALTER COMMAND II

Task 1 : Find out the names of all the clients from client_master table.

This task can be completed using the 'select' command.

```

1  use student_record;
2
3  #displaying all the client names
4 • select client_name from client_master;
5

```

| # | client_name |
|---|-------------|
| 1 | Yash Jain |
| 2 | Elon Musk |
| 3 | Virat Kohli |
| 4 | Max |
| 5 | Ratan Tata |

Task 2: Retrieve the entire contents of client_master table.

This task can be completed using the 'select' command.

```

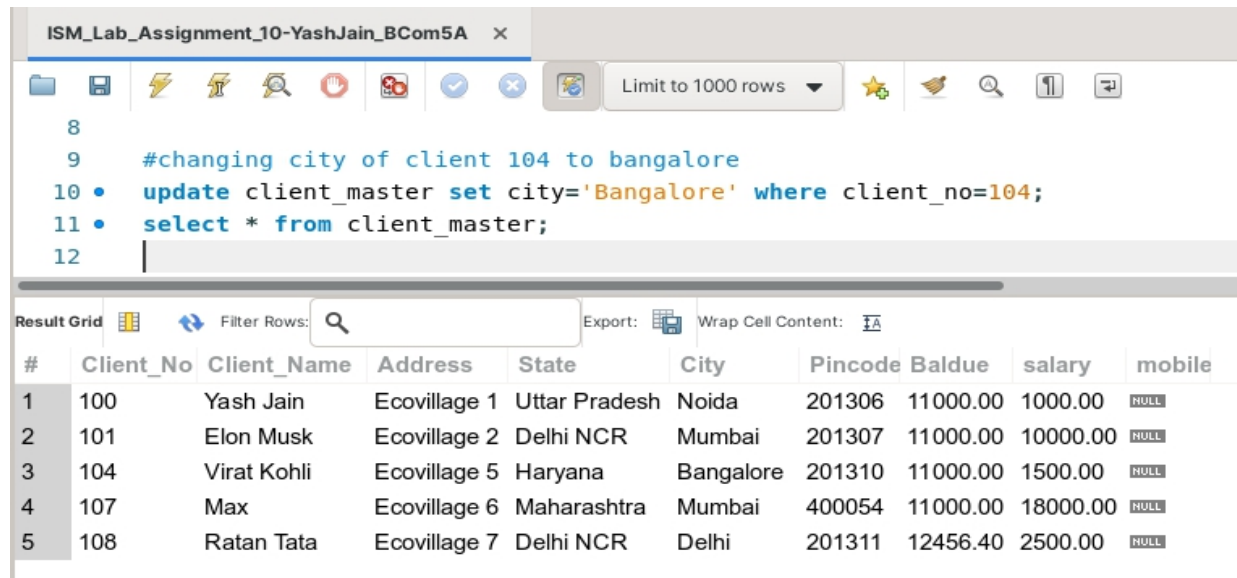
5
6  #retrieving all contents of client_master table
7 • select * from client_master;
8
9

```

| # | Client_No | Client_Name | Address | State | City | Pincode | Baldue | salary | mobile |
|---|-----------|-------------|--------------|---------------|-----------|---------|----------|----------|--------|
| 1 | 100 | Yash Jain | Ecovillage 1 | Uttar Pradesh | Noida | 201306 | 11000.00 | 1000.00 | NULL |
| 2 | 101 | Elon Musk | Ecovillage 2 | Delhi NCR | Mumbai | 201307 | 11000.00 | 10000.00 | NULL |
| 3 | 104 | Virat Kohli | Ecovillage 5 | Haryana | Faridabad | 201310 | 11000.00 | 1500.00 | NULL |
| 4 | 107 | Max | Ecovillage 6 | Maharashtra | Mumbai | 400054 | 11000.00 | 18000.00 | NULL |
| 5 | 108 | Ratan Tata | Ecovillage 7 | Delhi NCR | Delhi | 201311 | 12456.40 | 2500.00 | NULL |

Task 3: Change the city of client 104 to Bangalore, of client_master table

This task can be completed using the ‘**update**’ command along with the ‘**SET**’ keyword, and the ‘**where**’ clause.



The screenshot shows a database management tool interface. The top toolbar includes icons for file operations, execution, and a 'Limit to 1000 rows' dropdown. The SQL editor contains the following code:

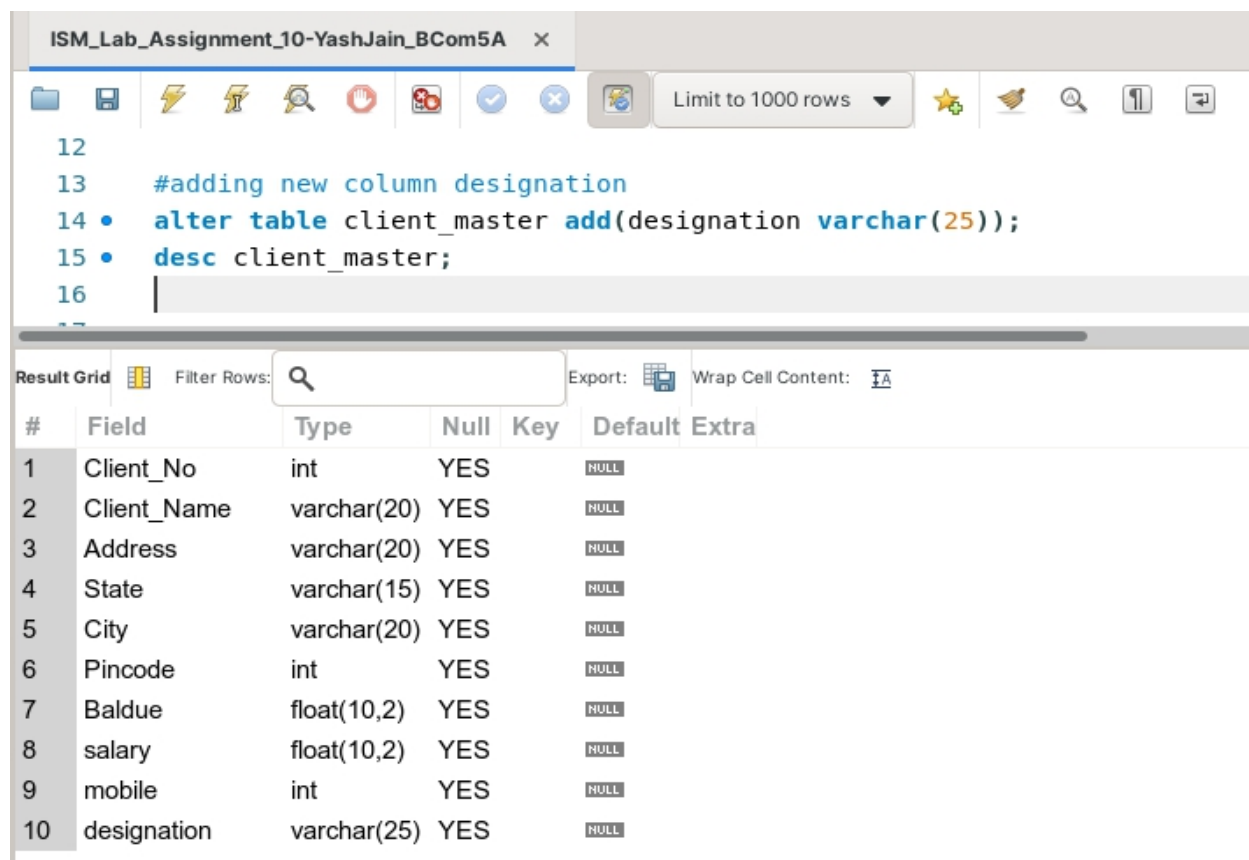
```
8
9 #changing city of client 104 to bangalore
10 • update client_master set city='Bangalore' where client_no=104;
11 • select * from client_master;
12
```

Below the editor is the 'Result Grid' showing the data after the update. The table has 10 columns: #, Client_No, Client_Name, Address, State, City, Pincode, Baldue, salary, and mobile. The data is as follows:

| # | Client_No | Client_Name | Address | State | City | Pincode | Baldue | salary | mobile |
|---|-----------|-------------|--------------|---------------|-----------|---------|----------|----------|--------|
| 1 | 100 | Yash Jain | Ecovillage 1 | Uttar Pradesh | Noida | 201306 | 11000.00 | 1000.00 | NULL |
| 2 | 101 | Elon Musk | Ecovillage 2 | Delhi NCR | Mumbai | 201307 | 11000.00 | 10000.00 | NULL |
| 3 | 104 | Virat Kohli | Ecovillage 5 | Haryana | Bangalore | 201310 | 11000.00 | 1500.00 | NULL |
| 4 | 107 | Max | Ecovillage 6 | Maharashtra | Mumbai | 400054 | 11000.00 | 18000.00 | NULL |
| 5 | 108 | Ratan Tata | Ecovillage 7 | Delhi NCR | Delhi | 201311 | 12456.40 | 2500.00 | NULL |

Task 4: Add a column 'designation' in client_master table.

The following task is completed using the ‘**alter table**’ command, along with the ‘**add**’ keyword.



The screenshot shows the same database management tool interface. The SQL editor contains the following code:

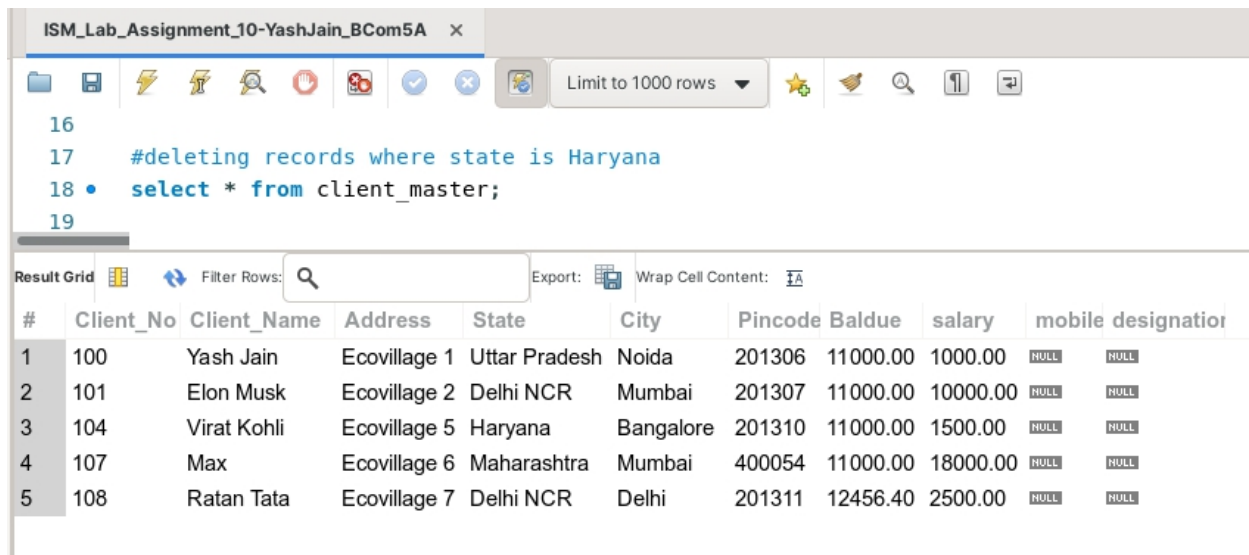
```
12
13 #adding new column designation
14 • alter table client_master add(designation varchar(25));
15 • desc client_master;
16
```

Below the editor is the 'Result Grid' showing the table structure after the column addition. The table has 10 columns: #, Field, Type, Null, Key, Default, and Extra. The data is as follows:

| # | Field | Type | Null | Key | Default | Extra |
|----|-------------|-------------|------|-----|---------|-------|
| 1 | Client_No | int | YES | | NULL | |
| 2 | Client_Name | varchar(20) | YES | | NULL | |
| 3 | Address | varchar(20) | YES | | NULL | |
| 4 | State | varchar(15) | YES | | NULL | |
| 5 | City | varchar(20) | YES | | NULL | |
| 6 | Pincode | int | YES | | NULL | |
| 7 | Baldue | float(10,2) | YES | | NULL | |
| 8 | salary | float(10,2) | YES | | NULL | |
| 9 | mobile | int | YES | | NULL | |
| 10 | designation | varchar(25) | YES | | NULL | |

Task 5: Delete records from client_master table where state is Haryana.

This task can be completed using the 'delete from' command, with the 'where' clause.



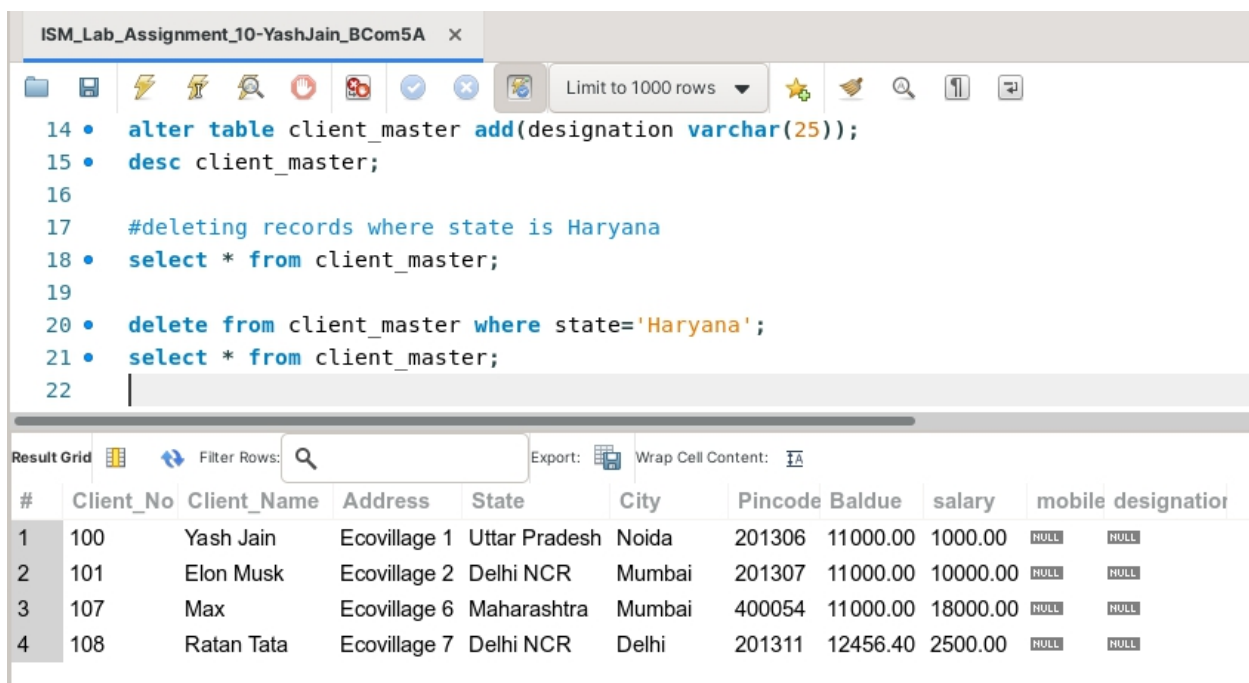
The screenshot shows a database management tool interface. The top toolbar includes icons for file operations, a search icon, and a 'Limit to 1000 rows' dropdown. The SQL editor contains the following code:

```
16
17 #deleting records where state is Haryana
18 • select * from client_master;
19
```

The 'Result Grid' shows the following data:

| # | Client_No | Client_Name | Address | State | City | Pincode | Baldue | salary | mobile | designation |
|---|-----------|-------------|--------------|---------------|-----------|---------|----------|----------|--------|-------------|
| 1 | 100 | Yash Jain | Ecovillage 1 | Uttar Pradesh | Noida | 201306 | 11000.00 | 1000.00 | NULL | NULL |
| 2 | 101 | Elon Musk | Ecovillage 2 | Delhi NCR | Mumbai | 201307 | 11000.00 | 10000.00 | NULL | NULL |
| 3 | 104 | Virat Kohli | Ecovillage 5 | Haryana | Bangalore | 201310 | 11000.00 | 1500.00 | NULL | NULL |
| 4 | 107 | Max | Ecovillage 6 | Maharashtra | Mumbai | 400054 | 11000.00 | 18000.00 | NULL | NULL |
| 5 | 108 | Ratan Tata | Ecovillage 7 | Delhi NCR | Delhi | 201311 | 12456.40 | 2500.00 | NULL | NULL |

(before deletion)



The screenshot shows the same database management tool interface. The SQL editor contains the following code:

```
14 • alter table client_master add(designation varchar(25));
15 • desc client_master;
16
17 #deleting records where state is Haryana
18 • select * from client_master;
19
20 • delete from client_master where state='Haryana';
21 • select * from client_master;
22
```

The 'Result Grid' shows the data after deletion:

| # | Client_No | Client_Name | Address | State | City | Pincode | Baldue | salary | mobile | designation |
|---|-----------|-------------|--------------|---------------|--------|---------|----------|----------|--------|-------------|
| 1 | 100 | Yash Jain | Ecovillage 1 | Uttar Pradesh | Noida | 201306 | 11000.00 | 1000.00 | NULL | NULL |
| 2 | 101 | Elon Musk | Ecovillage 2 | Delhi NCR | Mumbai | 201307 | 11000.00 | 10000.00 | NULL | NULL |
| 3 | 107 | Max | Ecovillage 6 | Maharashtra | Mumbai | 400054 | 11000.00 | 18000.00 | NULL | NULL |
| 4 | 108 | Ratan Tata | Ecovillage 7 | Delhi NCR | Delhi | 201311 | 12456.40 | 2500.00 | NULL | NULL |

(after deletion)