

**Information System Management Lab  
BCOM 307**

**Assignment #12**

**Submitted by:**

**Name:** YASH JAIN  
**Enrollment No:** 03914788818  
**Semester:** B.Com(H) 5<sup>th</sup> Semester  
**Class:** B.COM(H)  
**Section:** B.Com 5A  
**Date of Submission:** 04/10/2021

**Submitted to:**

**Praveen Kumar Singh**  
**Assistant Professor, MAIMS**



**Department of Commerce**  
**Maharaja Agrasen Institute of Management Studies**  
**Affiliated to Guru Gobind Singh Indraprastha University, Delhi**  
**Sector -22, Rohini, Delhi -110086, India; [www.maims.ac.in](http://www.maims.ac.in)**



## Maharaja Agrasen Institute of Management Studies

Affiliated to GGS IP University; Recognized u/s 2(f) of UGC

Recognized by Bar Council of India; ISO 9001: 2015

Certified Institution Sector 22, Rohini, Delhi -110086, India;

[www.maims.ac.in](http://www.maims.ac.in)

Department of Commerce

Academic Year: 2020-21

Semester: Vth

### Assignment No.12

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	Drop column pincode from the table clients.	CO2, CO3, CO4
2	Change the column 'Address' size to 40.	
3	Update the following for client 107 - 1. Name - SMITH 2. Baldue - 5000	
4	Change the name of table clients to client_master.	
5	Delete from client_master where the column state holds the value 'Uttar Pradesh'.	
6	Add a column called 'City' of datatype char and size 15 to the client_master table.	

**ASSIGNMENT 12 - PRACTICE FOR ALTER COMMAND****Task 1 : Drop column pincode from the table clients.**

This task can be completed using the 'alter' command, with the 'drop' keyword.

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

```
2  
3 #dropping pincode from clients  
4 • desc clients;  
5
```

Below the editor, the 'Result Grid' displays the table structure of 'clients' before the column is dropped. The table has 9 columns: Client\_No, Client\_Name, Address, State, Pincode, Baldue, salary, mobile, and designation. Each column's type, nullability, and default value are listed.

#	Field	Type	Null	Key	Default	Extra
1	Client_No	int	YES		NULL	
2	Client_Name	varchar(35)	YES		NULL	
3	Address	varchar(20)	YES		NULL	
4	State	varchar(15)	YES		NULL	
5	Pincode	int	YES		NULL	
6	Baldue	float(10,2)	YES		NULL	
7	salary	float(10,2)	YES		NULL	
8	mobile	int	YES		NULL	
9	designation	varchar(25)	YES		NULL	

(before dropping pincode column)

The screenshot shows the same database management tool interface after executing the SQL command to drop the 'pincode' column. The SQL editor now contains:

```
5  
6 • alter table clients drop column pincode;  
7 • desc clients;  
8  
9
```

The 'Result Grid' shows the updated table structure, which now has 8 columns. The 'Pincode' column has been successfully removed.

#	Field	Type	Null	Key	Default	Extra
1	Client_No	int	YES		NULL	
2	Client_Name	varchar(35)	YES		NULL	
3	Address	varchar(20)	YES		NULL	
4	State	varchar(15)	YES		NULL	
5	Baldue	float(10,2)	YES		NULL	
6	salary	float(10,2)	YES		NULL	
7	mobile	int	YES		NULL	
8	designation	varchar(25)	YES		NULL	

(after dropping pincode column)

**Task 2: Change the column 'Address' size to 40.**

This task can be completed using the 'Alter' command, with the 'modify' keyword.

The screenshot shows a SQL editor window titled "ISM\_Lab\_Assignment\_12-YashJain\_BCom5A". The editor contains the following SQL code:

```
8  
9 #changing size of address column to 40  
10 • desc clients;  
11
```

Below the editor is a "Result Grid" showing the structure of the 'clients' table. The table has 8 columns: #, Field, Type, Null, Key, Default, and Extra.

#	Field	Type	Null	Key	Default	Extra
1	Client_No	int	YES		NULL	
2	Client_Name	varchar(35)	YES		NULL	
3	Address	varchar(20)	YES		NULL	
4	State	varchar(15)	YES		NULL	
5	Baldue	float(10,2)	YES		NULL	
6	salary	float(10,2)	YES		NULL	
7	mobile	int	YES		NULL	
8	designation	varchar(25)	YES		NULL	

(before modifying the size of 'address' column)

The screenshot shows the same SQL Studio window after executing the ALTER command. The editor now contains the following SQL code:

```
11  
12 • alter table clients modify address varchar(40);  
13 • desc clients;  
14  
15
```

The "Result Grid" shows the updated structure of the 'clients' table. The 'Address' column's type is now 'varchar(40)'.

#	Field	Type	Null	Key	Default	Extra
1	Client_No	int	YES		NULL	
2	Client_Name	varchar(35)	YES		NULL	
3	address	varchar(40)	YES		NULL	
4	State	varchar(15)	YES		NULL	
5	Baldue	float(10,2)	YES		NULL	
6	salary	float(10,2)	YES		NULL	
7	mobile	int	YES		NULL	
8	designation	varchar(25)	YES		NULL	

(after modifying size of 'address' column)

### Task 3: Update the following for client 107 -

1. Name - SMITH
2. Baldue - 5000

This task can be completed using the **'update'** command along with the **'set'** keyword, with the **'where'** clause.

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

```

14
15 #updating details for client 107
16 • select * from clients where client_no=107;
17
18

```

Below the editor is the 'Result Grid' section. It includes a 'Filter Rows' search bar, an 'Export' button, and a 'Wrap Cell Content' checkbox. The result grid displays a single row of data:

#	Client_No	Client_Name	address	State	Baldue	salary	mobile	designation
1	107	Max	Ecovillage 6	Maharashtra	11000.00	18000.00	NULL	NULL

(before updating the record)

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

```

17
18 • update clients set client_name='SMITH' where client_no=107;
19 • update clients set baldue=5000 where client_no=107;
20
21 • select * from clients where client_no=107;
22

```

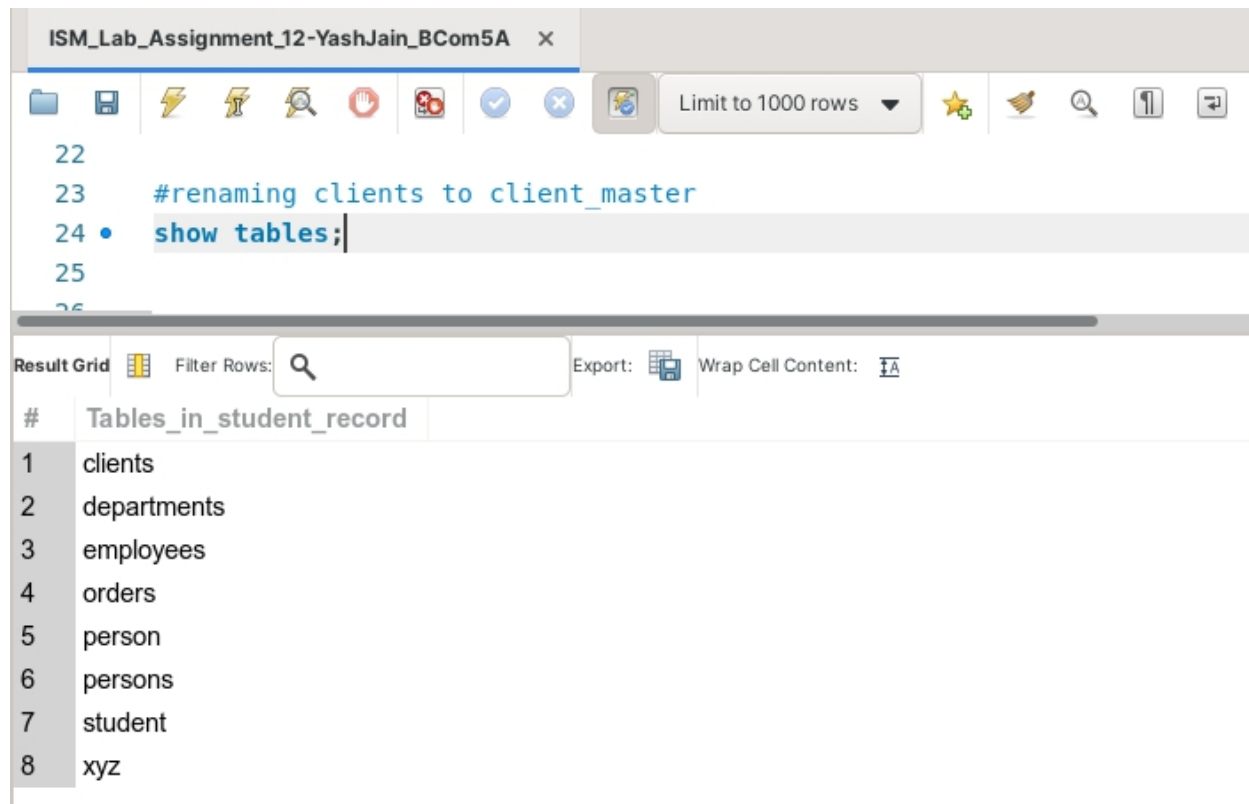
The 'Result Grid' section shows the updated data:

#	Client_No	Client_Name	address	State	Baldue	salary	mobile	designation
1	107	SMITH	Ecovillage 6	Maharashtra	5000.00	18000.00	NULL	NULL

(after updating the record)

#### Task 4: Change the name of table clients to client\_master.

The following task is completed using the **'rename table'** command, with the **'TO'** keyword.



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 command editor displays the following SQL commands:

```

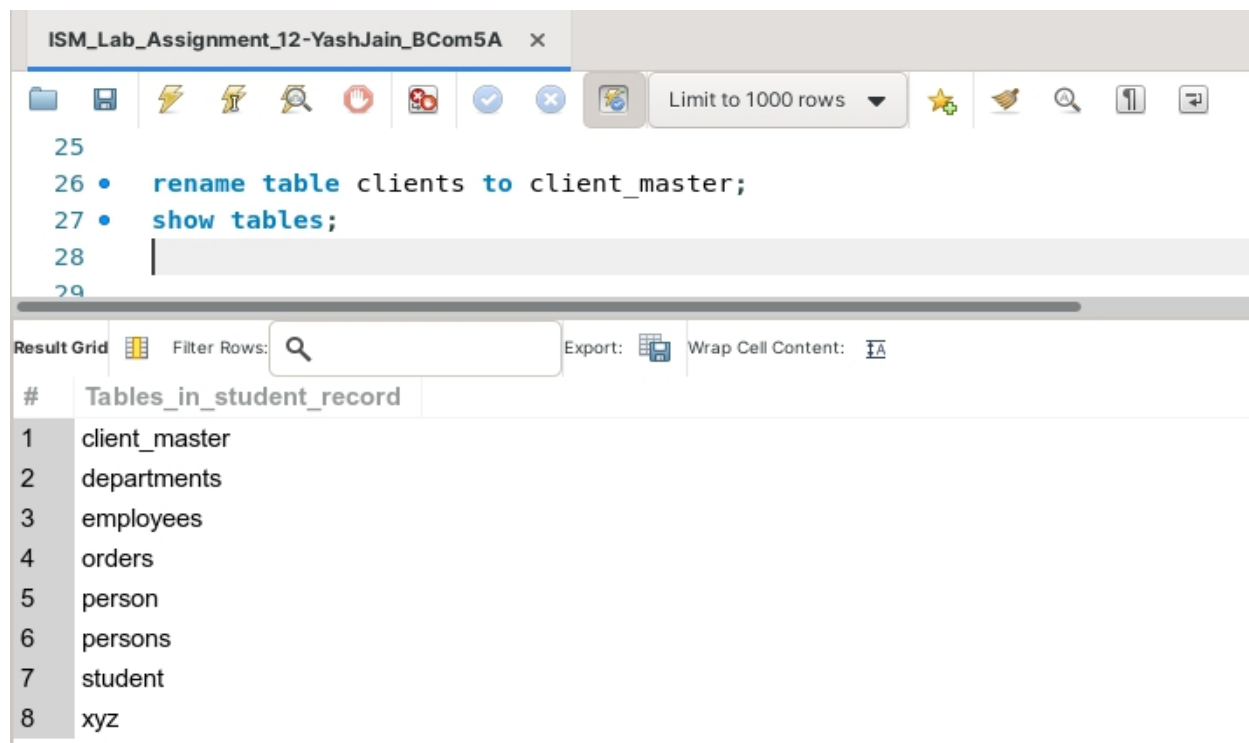
22
23 #renaming clients to client_master
24 • show tables;
25
26

```

The 'Result Grid' at the bottom shows the output of the 'show tables;' command. It has a search bar and an 'Export' button. The results are as follows:

#	Tables_in_student_record
1	clients
2	departments
3	employees
4	orders
5	person
6	persons
7	student
8	xyz

(before renaming table)



The screenshot shows the same database management tool interface after executing the 'rename table' command. The command editor displays the following SQL commands:

```

25
26 • rename table clients to client_master;
27 • show tables;
28
29

```

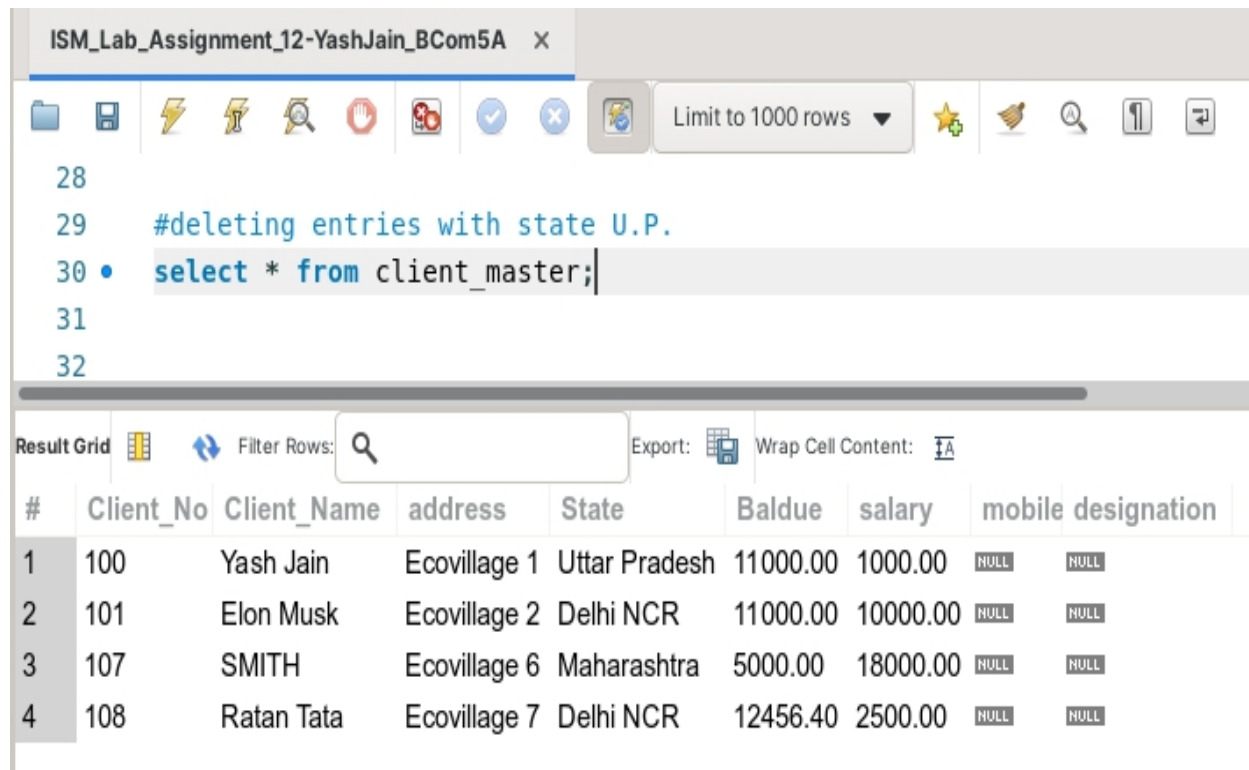
The 'Result Grid' at the bottom shows the output of the 'show tables;' command. The results are as follows:

#	Tables_in_student_record
1	client_master
2	departments
3	employees
4	orders
5	person
6	persons
7	student
8	xyz

(after renaming table)

**Task 5: Delete from client\_master where the column state holds the value 'Uttar Pradesh'.**

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



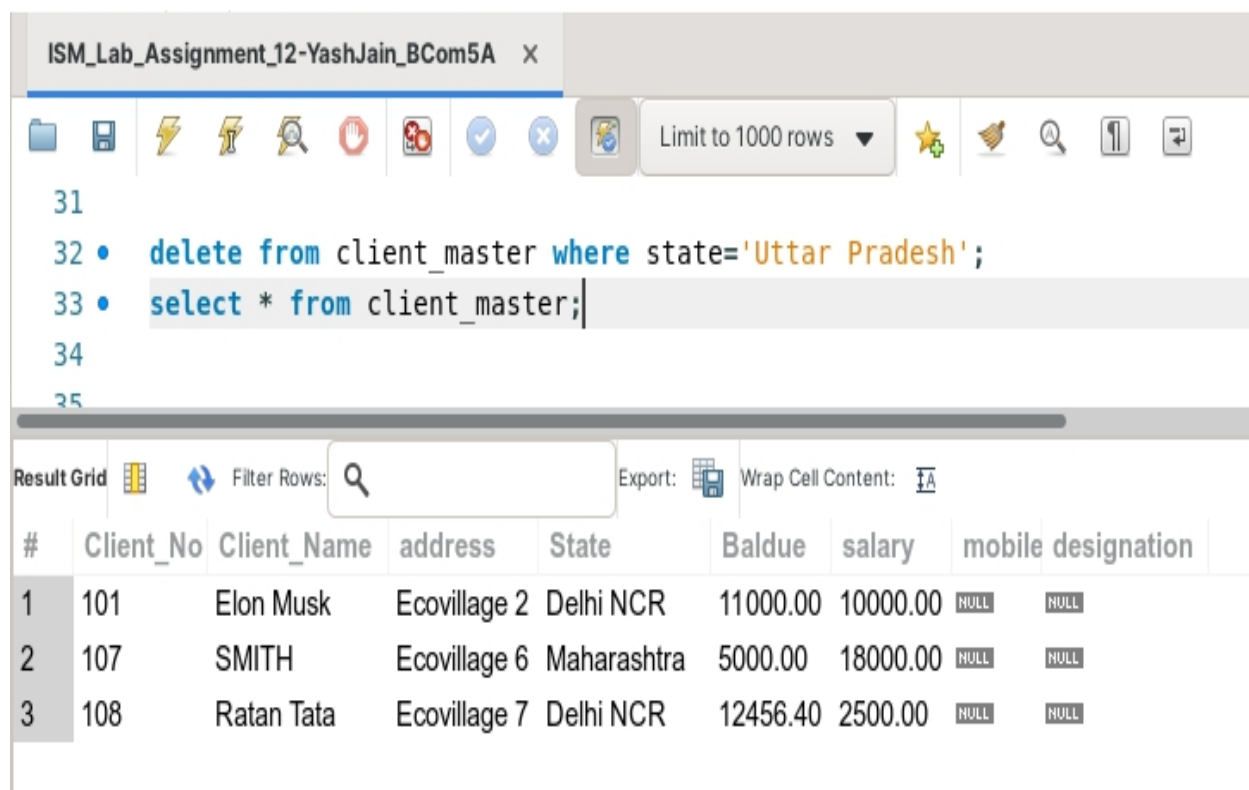
The screenshot shows a database management tool interface. The top toolbar includes icons for file operations, a search icon, and a 'Limit to 1000 rows' dropdown. The SQL editor displays the following code:

```
28  
29 #deleting entries with state U.P.  
30 • select * from client_master;  
31  
32
```

Below the editor is the 'Result Grid' section, which includes a search bar, an 'Export' button, and a 'Wrap Cell Content' checkbox. The results are displayed in a table with the following data:

#	Client_No	Client_Name	address	State	Baldue	salary	mobile	designation
1	100	Yash Jain	Ecovillage 1	Uttar Pradesh	11000.00	1000.00	NULL	NULL
2	101	Elon Musk	Ecovillage 2	Delhi NCR	11000.00	10000.00	NULL	NULL
3	107	SMITH	Ecovillage 6	Maharashtra	5000.00	18000.00	NULL	NULL
4	108	Ratan Tata	Ecovillage 7	Delhi NCR	12456.40	2500.00	NULL	NULL

(before deletion)



The screenshot shows the same database management tool interface after the deletion operation. The SQL editor displays the following code:

```
31  
32 • delete from client_master where state='Uttar Pradesh';  
33 • select * from client_master;  
34  
35
```

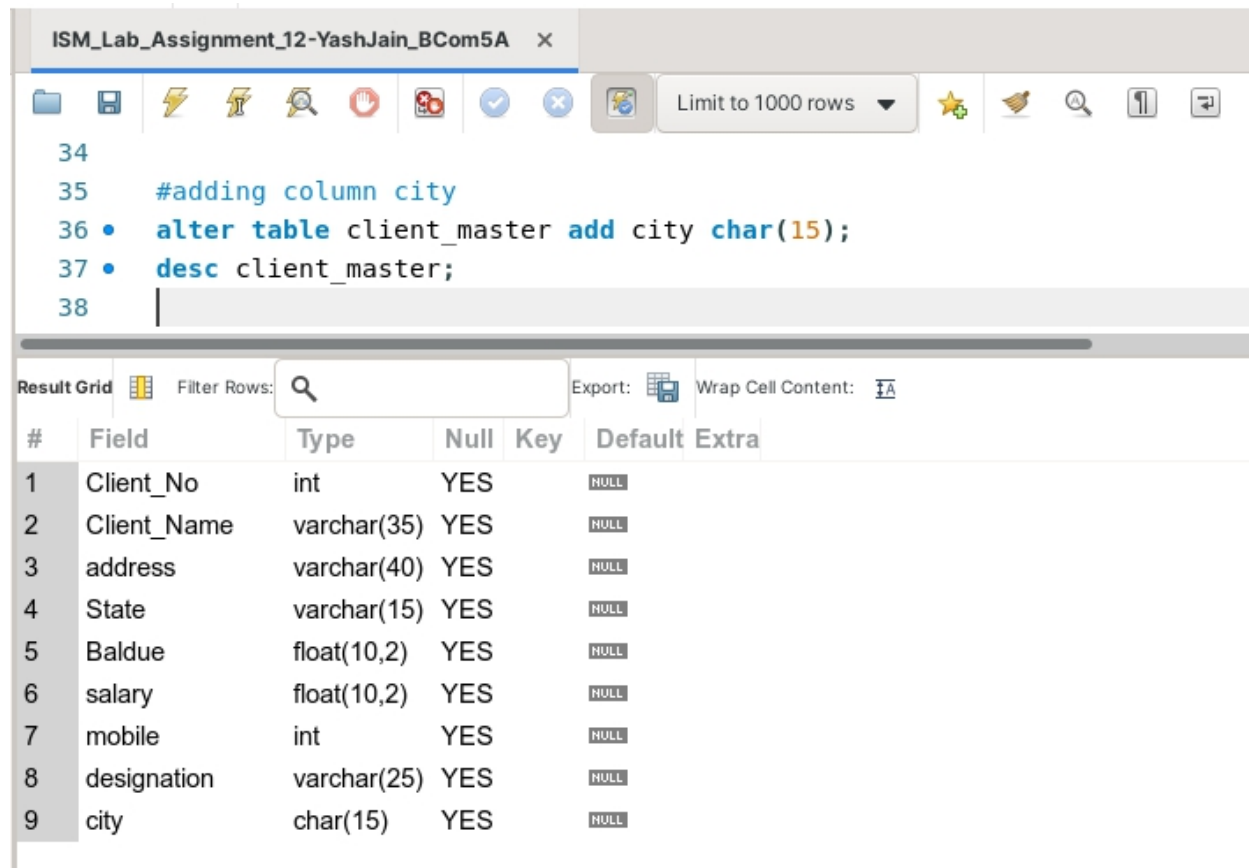
The 'Result Grid' section shows the results after the deletion of the entry with Client\_No 100. The table now contains three rows:

#	Client_No	Client_Name	address	State	Baldue	salary	mobile	designation
1	101	Elon Musk	Ecovillage 2	Delhi NCR	11000.00	10000.00	NULL	NULL
2	107	SMITH	Ecovillage 6	Maharashtra	5000.00	18000.00	NULL	NULL
3	108	Ratan Tata	Ecovillage 7	Delhi NCR	12456.40	2500.00	NULL	NULL

(after deletion)

**Task 6: Add a column called 'City' of datatype char and size 15 to the client\_master table.**

This task can be completed using the 'alter table' command, along with the 'add' keyword.



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 displays the following commands:

```

34
35 #adding column city
36 • alter table client_master add city char(15);
37 • desc client_master;
38

```

Below the editor is the 'Result Grid' showing the table structure of 'client\_master'.

#	Field	Type	Null	Key	Default	Extra
1	Client_No	int	YES		NULL	
2	Client_Name	varchar(35)	YES		NULL	
3	address	varchar(40)	YES		NULL	
4	State	varchar(15)	YES		NULL	
5	Baldue	float(10,2)	YES		NULL	
6	salary	float(10,2)	YES		NULL	
7	mobile	int	YES		NULL	
8	designation	varchar(25)	YES		NULL	
9	city	char(15)	YES		NULL	