

**Information System Management Lab
BCOM 307**

Assignment #9

Submitted by:

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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.

QuestionNo.	Question	CO No.
1	Add a new column 'Salary' to the client_master table.	CO1
2	Update salary values for all the clients with different values.	
3	Update salary to 10,000 for client ID 101.	
4	Add a column 'mobile number' with datatype int(10).	
5	Display all the clients where salary > 3000 and balance < 15000.	

ASSIGNMENT 9 - ALTER COMMAND

Task 1 : Add a new column 'Salary' to the client_master table.

The following task is completed using the 'alter table' command, along with the 'add' keyword. The 'Alter' command allows changing the existing structure of a table. With ALTER Command, you can add or delete columns, change the data type of existing columns, or if you want to rename the columns or the table itself. The syntax for this is:

```
Alter table <tablename> ADD column_name datatype constraint(if applicable);
```

The screenshot shows a SQL query editor window titled "ISM_Lab_Assignment_9-YashJain_BCom5A". The query is as follows:

```
5
6 #adding a new column salary to the table
7 • alter table client_master add(salary float(10,2));
8 • desc client_master;
```

Below the query editor, the "Result Grid" displays the structure of the 'client_master' table after the command is executed:

#	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	

Task 2: Update salary values for all the clients with different values.

The following task is completed using the 'update' command, along with the 'SET' keyword, and the 'where' clause.

The screenshot shows a SQL query editor window titled "ISM_Lab_Assignment_9-YashJain_BCom5A". The query is as follows:

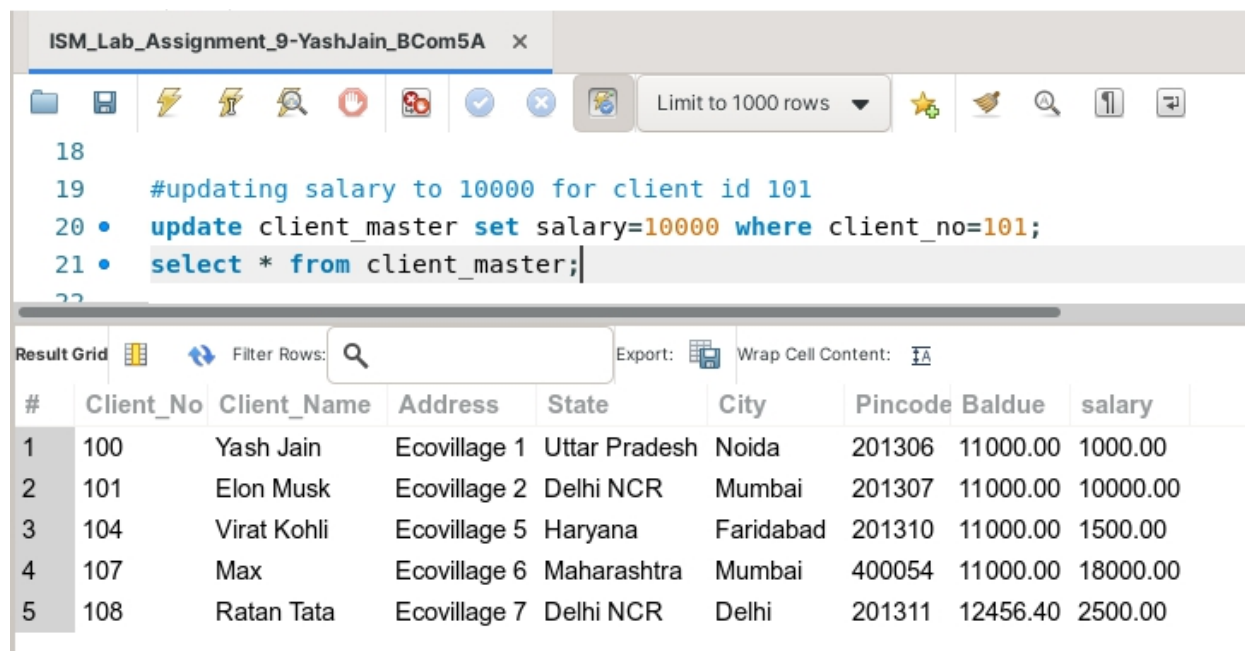
```
9
10 #updating salary for all the clients with different values
11 • update client_master set salary=1000 where client_no=100;
12 • update client_master set salary=2000 where client_no=101;
13 • update client_master set salary=1500 where client_no=104;
14 • update client_master set salary=18000 where client_no=107;
15 • update client_master set salary=2500 where client_no=108;
16
17 • select * from client_master;
```

Below the query editor, the "Result Grid" displays the updated data for the 'client_master' table:

#	Client_No	Client_Name	Address	State	City	Pincode	Baldue	salary
1	100	Yash Jain	Ecovillage 1	Uttar Pradesh	Noida	201306	11000.00	1000.00
2	101	Elon Musk	Ecovillage 2	Delhi NCR	Mumbai	201307	11000.00	2000.00
3	104	Virat Kohli	Ecovillage 5	Haryana	Faridabad	201310	11000.00	1500.00
4	107	Max	Ecovillage 6	Maharashtra	Mumbai	400054	11000.00	18000.00
5	108	Ratan Tata	Ecovillage 7	Delhi NCR	Delhi	201311	12456.40	2500.00

Task 3: Update salary to 10,000 for client ID 101.

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, a search bar, and a 'Limit to 1000 rows' dropdown. The SQL editor contains the following commands:

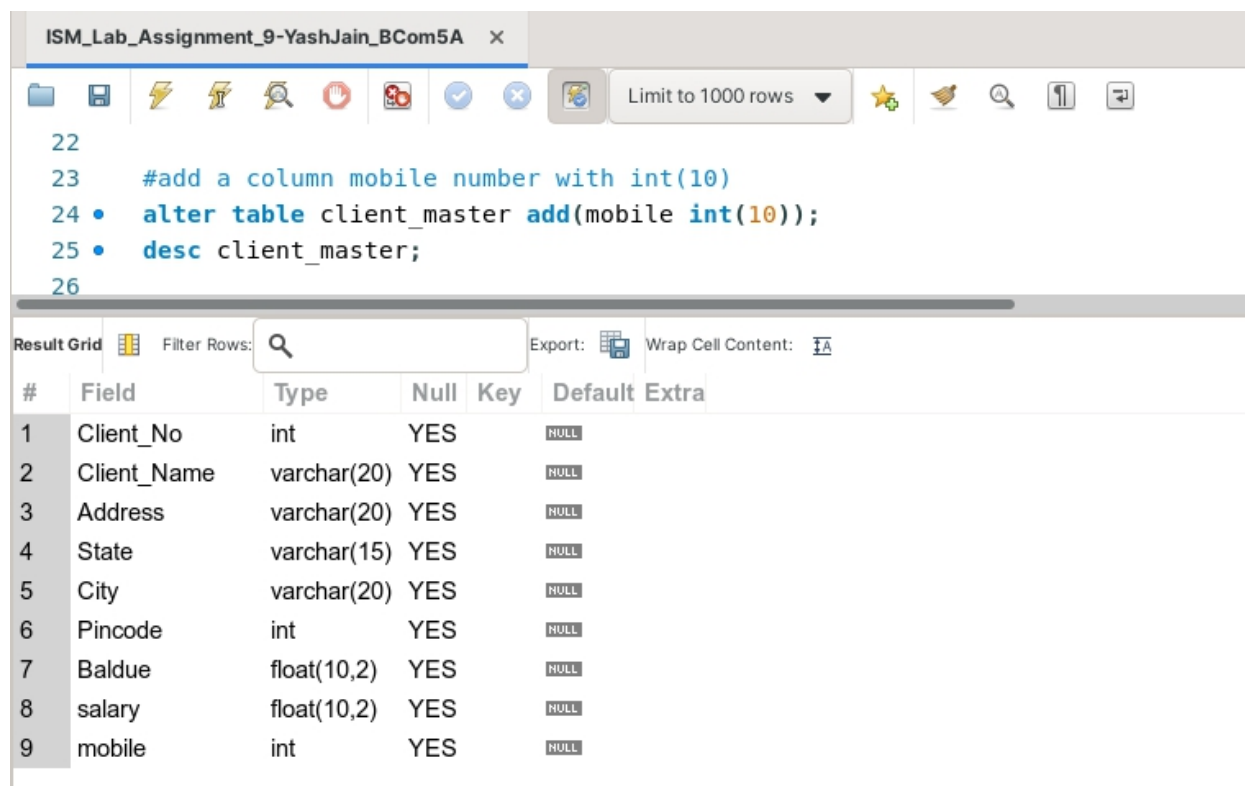
```
18
19 #updating salary to 10000 for client id 101
20 • update client_master set salary=10000 where client_no=101;
21 • select * from client_master;
22
```

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

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

Task 4: Add a column 'mobile number' with datatype int(10).

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 commands:

```
22
23 #add a column mobile number with int(10)
24 • alter table client_master add(mobile int(10));
25 • desc client_master;
26
```

Below the editor is the 'Result Grid' showing the table structure after the column addition. The grid has 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	

Task 5: Display all the clients where salary > 3000 and baldue < 15000.

This task can be completed using the 'select' command, with the 'where' clause and the 'and' operator.

The screenshot shows a database management tool interface. At the top, there's a tab labeled 'ISM_Lab_Assignment_9-YashJain_BCom5A'. Below the tab is a toolbar with various icons. A dropdown menu shows 'Limit to 1000 rows'. The main area contains a SQL query editor with the following text:

```
26  
27 #display all the clients with salary>3000 and baldue<15000  
28 • select * from client_master where salary>3000 and baldue<15000;  
29
```

Below the query editor is a 'Result Grid' section. It includes a search bar, an 'Export' button, and a 'Wrap Cell Content' checkbox. The results are displayed in a table with the following columns: #, Client_No, Client_Name, Address, State, City, Pincode, Baldue, salary, and mobile.

#	Client_No	Client_Name	Address	State	City	Pincode	Baldue	salary	mobile
1	101	Elon Musk	Ecovillage 2	Delhi NCR	Mumbai	201307	11000.00	10000.00	NULL
2	107	Max	Ecovillage 6	Maharashtra	Mumbai	400054	11000.00	18000.00	NULL