

**Information System Management Lab
BCOM 307**

Assignment #14

Submitted by:

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Section: B.Com 5A

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Submitted to:

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Department of Commerce

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Assignment No. 14

Unit No:

Course/Subject Code: BCOM 307

Issue Date

Subject Title: Information System Management Lab

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.

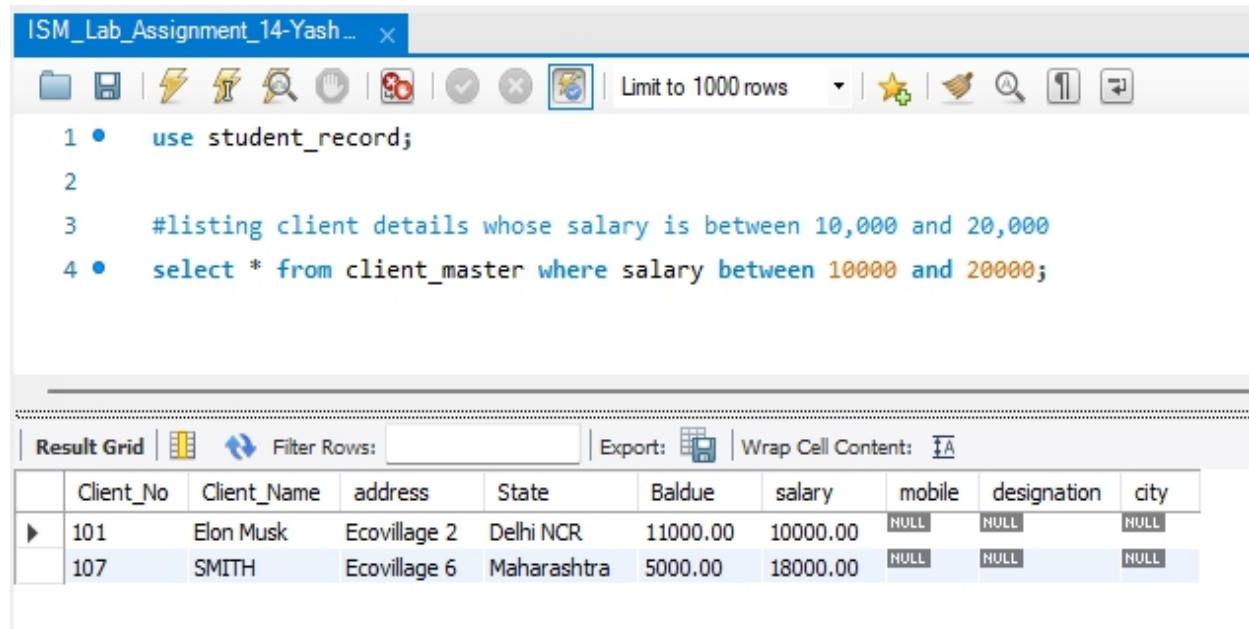
During online education mode, upload scanned copy of the complete assignment including cover page latest by due date.

Question No.	Question	CO No.
1	List client details whose salary is between 10,000 and 20,000.	CO1, CO2, CO3, CO4
2	List customers whose names begin with 'S'.	
3	List clients whose name begins with 'el' and are 8-letter word.	
4	List clients with names SMITH, and ELON MUSK.	
5	List clients with names other than the 4 names mentioned in Q4.	
6	List clients staying in a city starting with 'M'.	
7	List clients staying in Maharashtra or Delhi NCR.	
8	List clients having balance due greater than equal to 12000 or less than equal to 7000.	

ASSIGNMENT 14 - 'IN' AND 'NOT IN' OPERATORS

Task 1 : List client details whose salary is between 10,000 and 20,000.

This task can be completed using the '**where**' clause, along with the '**between**' operator.

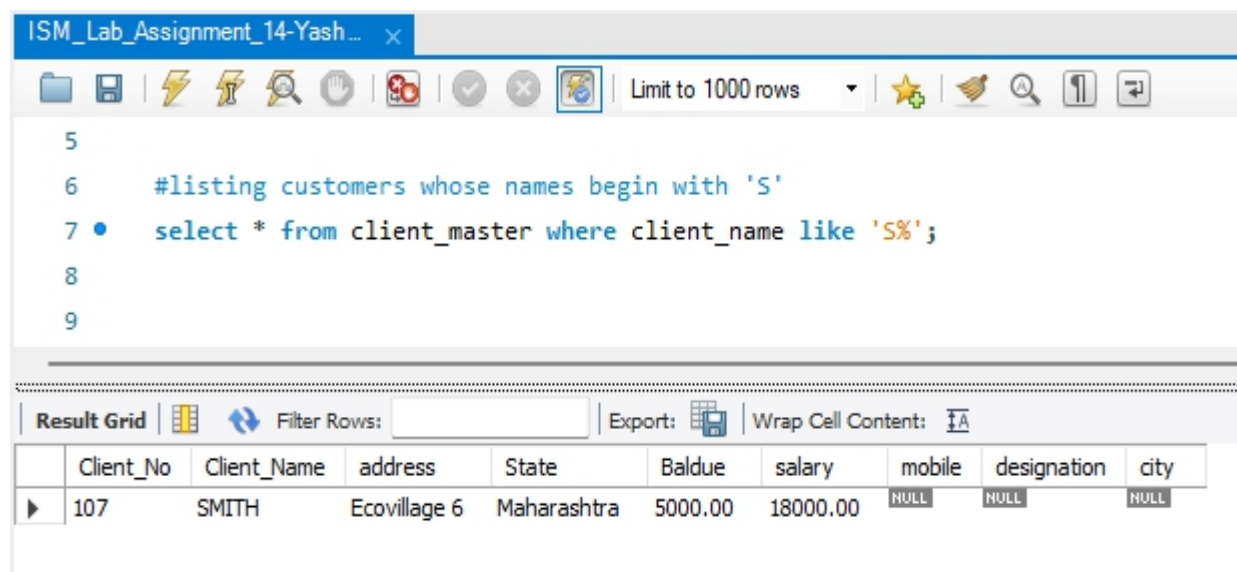


```
1 • use student_record;
2
3 #listing client details whose salary is between 10,000 and 20,000
4 • select * from client_master where salary between 10000 and 20000;
```

	Client_No	Client_Name	address	State	Baldue	salary	mobile	designation	city
▶	101	Elon Musk	Ecovillage 2	Delhi NCR	11000.00	10000.00	NULL	NULL	NULL
	107	SMITH	Ecovillage 6	Maharashtra	5000.00	18000.00	NULL	NULL	NULL

Task 2: List customers whose names begin with 'S'.

This task can be completed using the '**LIKE**' operator, along with the **% (Percentage)** Wildcard Character.



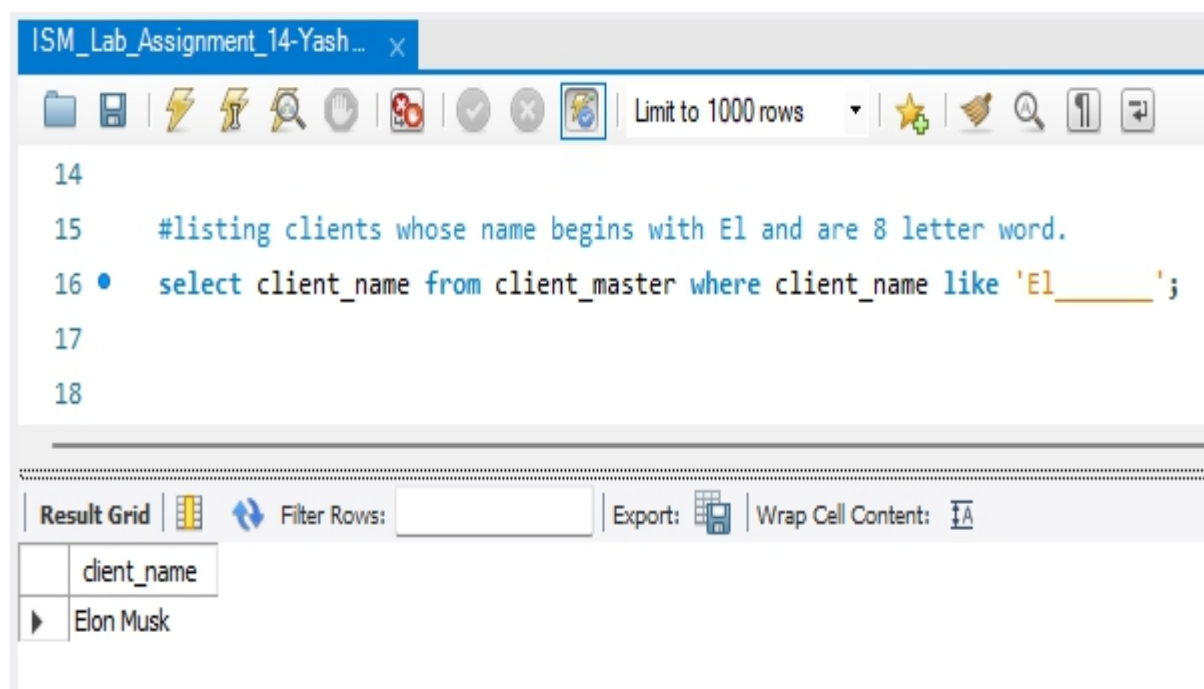
```
5
6 #listing customers whose names begin with 'S'
7 • select * from client_master where client_name like 'S%';
8
9
```

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

Task 3: List clients whose name begins with 'el' and are 8-letter word.

This task can be completed using the '**LIKE**' operator, along with the **underscore (_)** and the

percentage(%) wildcard characters.



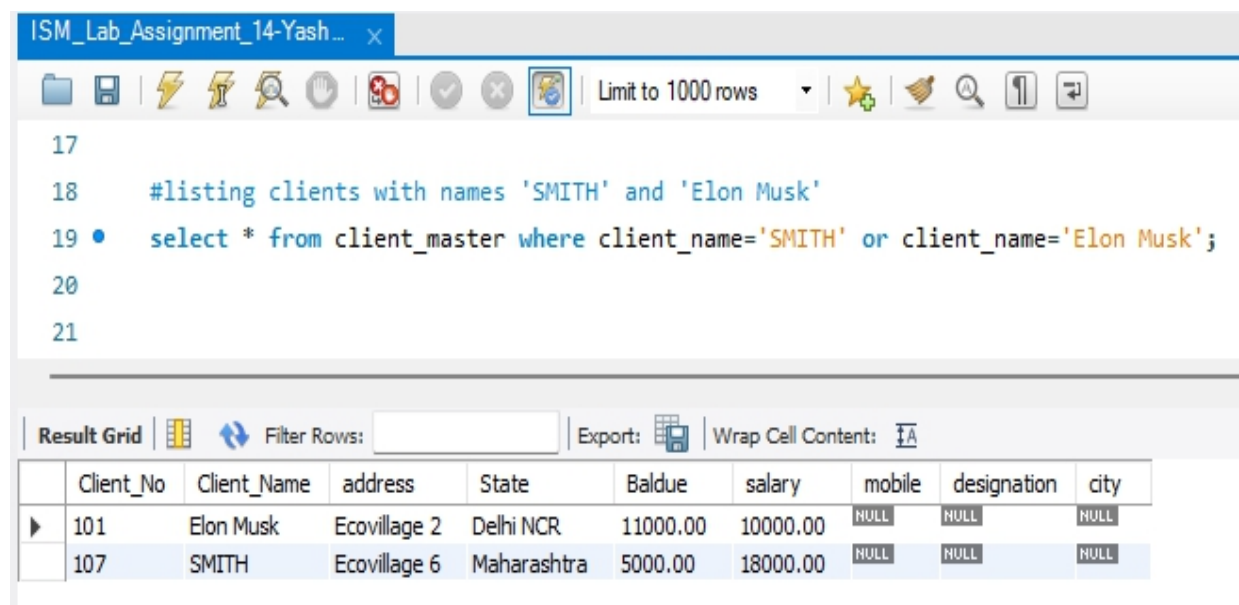
```
14
15 #listing clients whose name begins with El and are 8 letter word.
16 • select client_name from client_master where client_name like 'El_____';
17
18
```

Result Grid

client_name
Elon Musk

Task 4: List clients with names SMITH, and ELON MUSK.

Normally, the following task would be completed using the **Select** command, with the **where** clause and the **OR** operator.



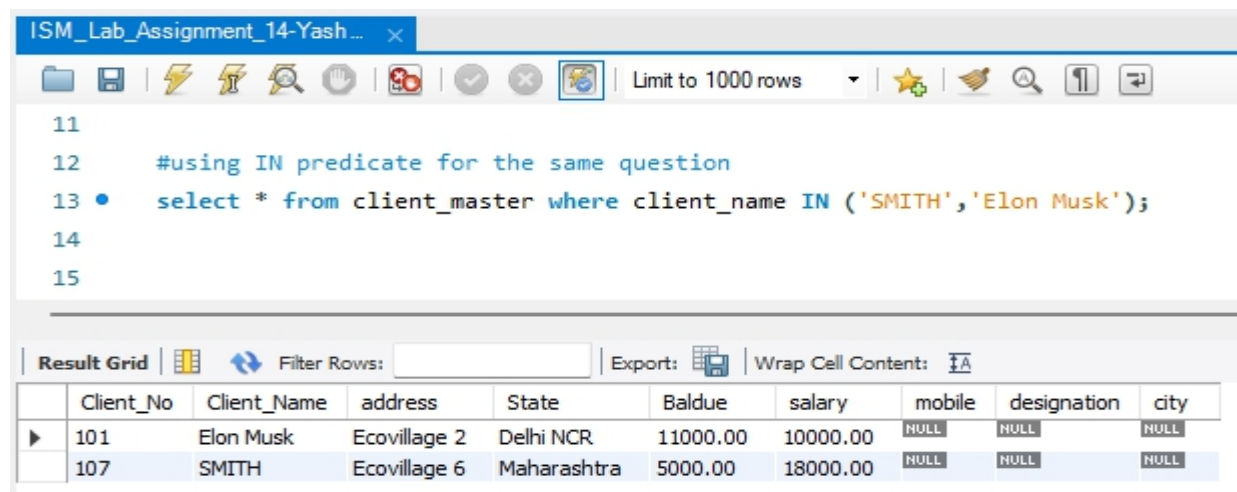
```
17
18 #listing clients with names 'SMITH' and 'Elon Musk'
19 • select * from client_master where client_name='SMITH' or client_name='Elon Musk';
20
21
```

Result Grid

Client_No	Client_Name	address	State	Baldue	salary	mobile	designation	city
101	Elon Musk	Ecovillage 2	Delhi NCR	11000.00	10000.00	NULL	NULL	NULL
107	SMITH	Ecovillage 6	Maharashtra	5000.00	18000.00	NULL	NULL	NULL

To make this task easier, we use the **'IN'** operator. To search for a range of values in a data, we use IN and NOT IN predicates, instead of the equal to (=) operator. The syntax for this is -

```
Select <columnname> from <tablename> where <columnname to be compared> IN(value1, value2, value3, value4.....);
```



ISM_Lab_Assignment_14-Yash... x

Limit to 1000 rows

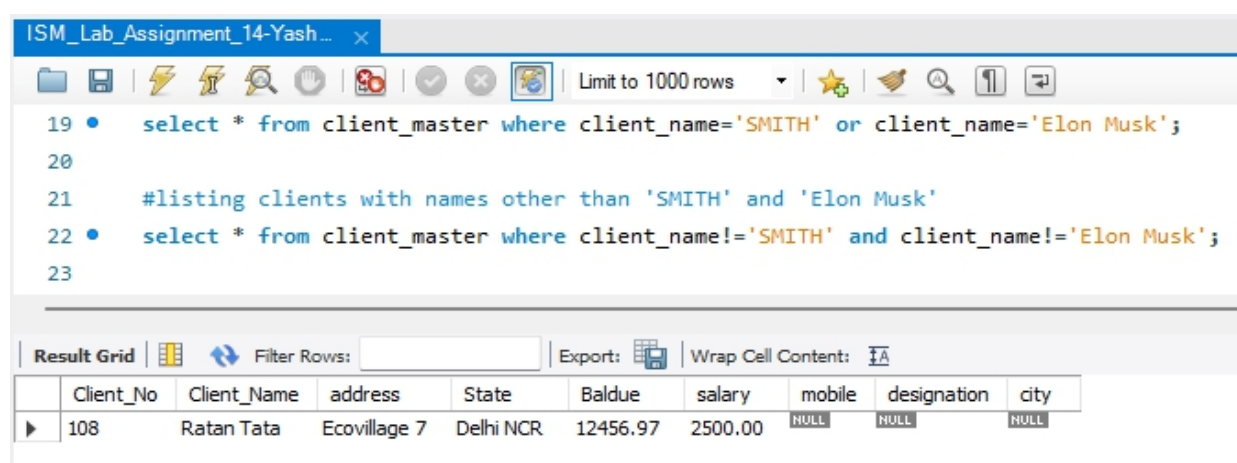
```
11
12 #using IN predicate for the same question
13 • select * from client_master where client_name IN ('SMITH','Elon Musk');
14
15
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

	Client_No	Client_Name	address	State	Baldue	salary	mobile	designation	city
▶	101	Elon Musk	Ecovillage 2	Delhi NCR	11000.00	10000.00	NULL	NULL	NULL
	107	SMITH	Ecovillage 6	Maharashtra	5000.00	18000.00	NULL	NULL	NULL

Task 5: List clients with names other than the 4 names mentioned in Q4.

Normally, the following task would be completed using the **Select** command, with the **where** clause and the **AND** operator, along with the exclamation mark (!) for the non-equality.



ISM_Lab_Assignment_14-Yash... x

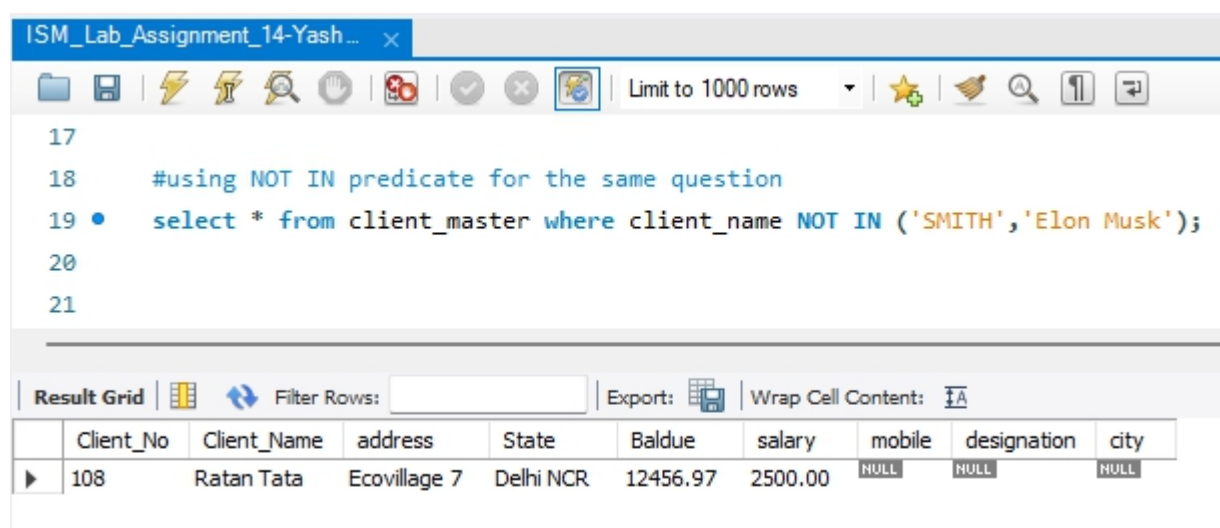
Limit to 1000 rows

```
19 • select * from client_master where client_name='SMITH' or client_name='Elon Musk';
20
21 #listing clients with names other than 'SMITH' and 'Elon Musk'
22 • select * from client_master where client_name!='SMITH' and client_name!='Elon Musk';
23
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

	Client_No	Client_Name	address	State	Baldue	salary	mobile	designation	city
▶	108	Ratan Tata	Ecovillage 7	Delhi NCR	12456.97	2500.00	NULL	NULL	NULL

To make this task easier, we use the **'NOT IN'** operator.



ISM_Lab_Assignment_14-Yash... x

Limit to 1000 rows

```
17
18 #using NOT IN predicate for the same question
19 • select * from client_master where client_name NOT IN ('SMITH','Elon Musk');
20
21
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

	Client_No	Client_Name	address	State	Baldue	salary	mobile	designation	city
▶	108	Ratan Tata	Ecovillage 7	Delhi NCR	12456.97	2500.00	NULL	NULL	NULL

Task 6: List clients staying in a city starting with 'M'.

This task can be completed using the 'LIKE' operator, along with the '%' (percentage) wildcard character.

The screenshot shows a database query editor window titled 'ISM_Lab_Assignment_14-Yash...'. The query is as follows:

```
14
15 #listing details of clients living in state starting with 'M'
16 • select * from client_master where state like 'M%';
17
18
```

Below the query editor, the 'Result Grid' is displayed, showing the results of the query. The grid has columns: Client_No, Client_Name, address, State, Baldue, salary, mobile, designation, and city. The results are as follows:

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

Task 7: List clients staying in Maharashtra or Delhi NCR.

This task can be completed using the 'IN' operator.

The screenshot shows a database query editor window titled 'ISM_Lab_Assignment_14-Yash...'. The query is as follows:

```
23
24 #listing clients staying in maharashtra or delhi ncr
25 • select * from client_master where state IN ('Delhi NCR', 'Maharashtra');
26
27
```

Below the query editor, the 'Result Grid' is displayed, showing the results of the query. The grid has columns: Client_No, Client_Name, address, State, Baldue, salary, mobile, designation, and city. The results are as follows:

Client_No	Client_Name	address	State	Baldue	salary	mobile	designation	city
101	Elon Musk	Ecovillage 2	Delhi NCR	11000.00	10000.00	NULL	NULL	NULL
107	SMITH	Ecovillage 6	Maharashtra	5000.00	18000.00	NULL	NULL	NULL
108	Ratan Tata	Ecovillage 7	Delhi NCR	12456.97	2500.00	NULL	NULL	NULL

Task 8: List clients having balance due greater than equal to 12000 or less than equal to 7000.

This task can be completed using the 'Select' command, along with the 'where' clause, and the inequality signs <= (less than or equal to), and > (greater than).

ISM_Lab_Assignment_14-Yash... x

Limit to 1000 rows

```
26
27 #listing clients with baldue <5000 and >12000
28 • select * from client_master where baldue<=7000 or baldue>=12000;
29
30
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	Client_No	Client_Name	address	State	Baldue	salary	mobile	designation	city
▶	107	SMITH	Ecovillage 6	Maharashtra	5000.00	18000.00	NULL	NULL	NULL
	108	Ratan Tata	Ecovillage 7	Delhi NCR	12456.97	2500.00	NULL	NULL	NULL