

**Information System Management Lab
BCOM 307**

Assignment #13

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Assignment No. 13

Unit No:

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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.

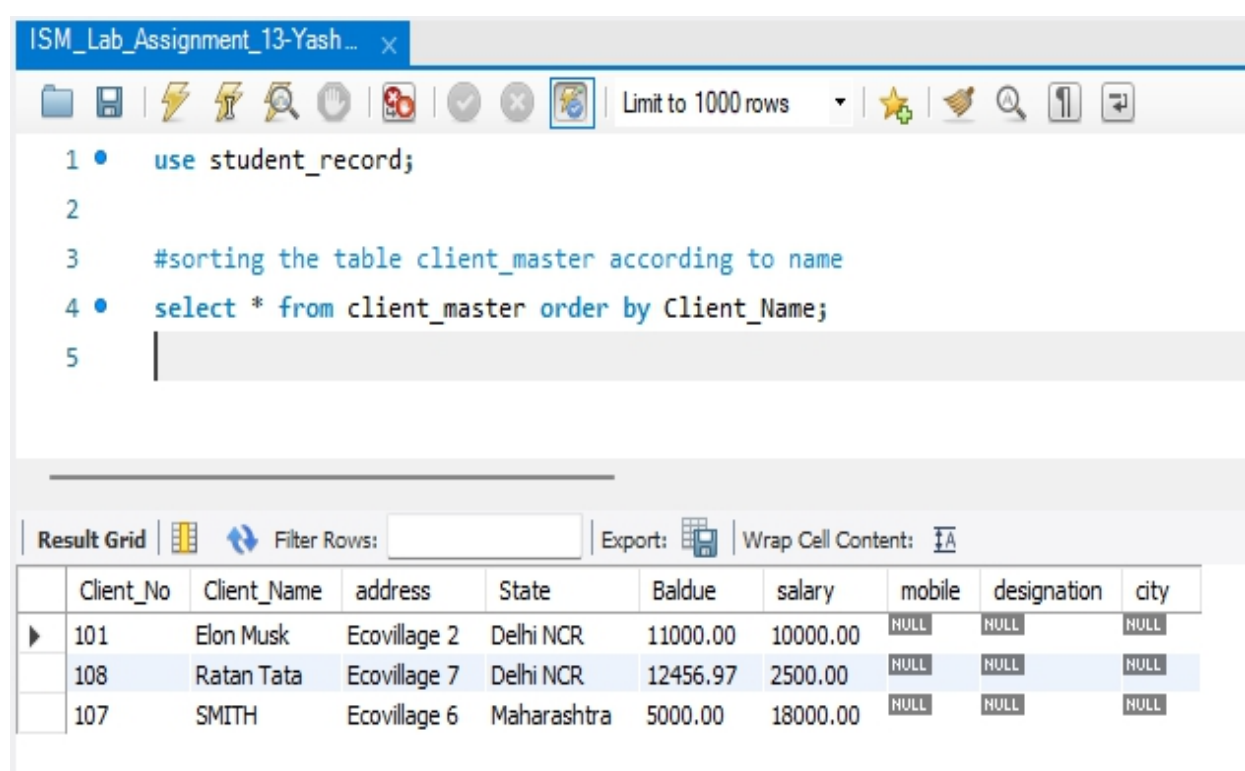
Question No.	Question	CO No.
1	Show the details of clients according to the client name in the ascending order.	CO1, CO2, CO3, CO4
2	Show the details of clients according to the client name in the descending order.	
3	List the Customer Names beginning with the letter 'E'.	
4	List the names of Clients that have 2nd character 'A' in their names.	
5	List the customers whose names have second character 'A' or 'L'.	
6	List the customers whose names begin with the letters 'SM' and it has five letter word.	

ASSIGNMENT 13 - 'ORDER BY' AND 'LIKE' CLAUSE**Task 1 : Show the details of clients according to the client name in the ascending order.**

This task can be completed using the '**Order By**' clause. The ORDER BY clause is used to sort the data of a table. It can be used to sort the data in ascending or descending order. The syntax for this is -

```
Select <columnName> from <tablename> ORDER BY <ColumnName>;  
(selecting one column)
```

```
Select * from <tablename> ORDER BY <columnName>; (selecting all  
columns)
```



The screenshot shows a database query editor window titled 'ISM_Lab_Assignment_13-Yash...'. The SQL code entered is:

```
1 • use student_record;  
2  
3 #sorting the table client_master according to name  
4 • select * from client_master order by Client_Name;  
5
```

Below the code editor is a 'Result Grid' showing the output of the query. The grid has columns: Client_No, Client_Name, address, State, Baldue, salary, mobile, designation, and city. The data is sorted by Client_Name in ascending order.

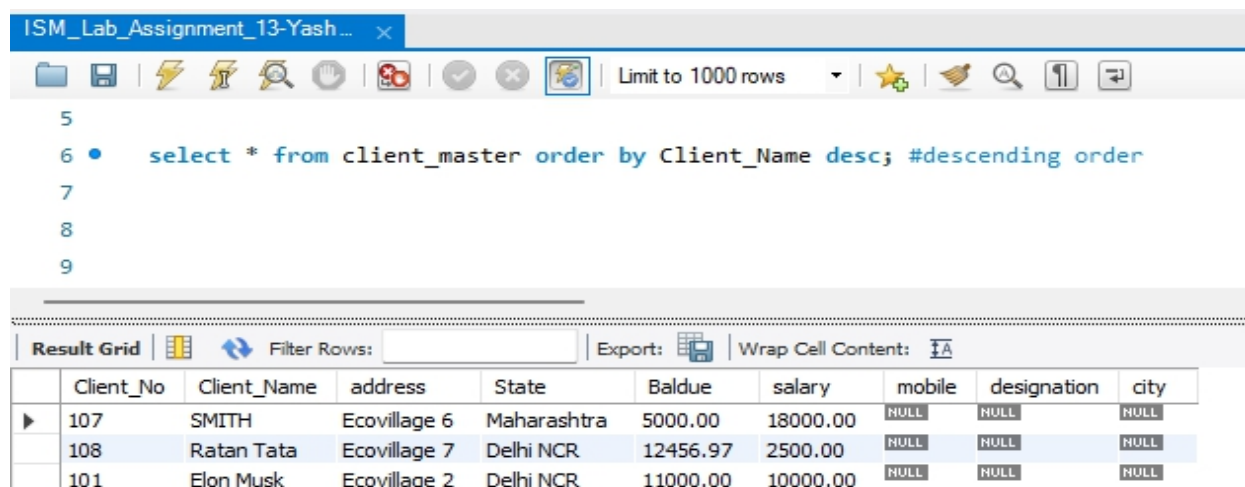
Client_No	Client_Name	address	State	Baldue	salary	mobile	designation	city
101	Elon Musk	Ecovillage 2	Delhi NCR	11000.00	10000.00	NULL	NULL	NULL
108	Ratan Tata	Ecovillage 7	Delhi NCR	12456.97	2500.00	NULL	NULL	NULL
107	SMITH	Ecovillage 6	Maharashtra	5000.00	18000.00	NULL	NULL	NULL

Task 2: Show the details of clients according to the client name in the descending order.

This task can be completed using the '**Order By**' clause, with the '**desc**' keyword. The DESC keyword sorts the table according to the mentioned column in descending order. This is not required in the case of Ascending order, as the ORDER BY clause sorts the data in ascending order by default. The syntax for this is -

```
Select <columnName> from <tablename> ORDER BY <ColumnName> desc;  
(selecting one column)
```

```
Select * from <tablename> ORDER BY <columnName> desc; (selecting  
all columns)
```



The screenshot shows a database application window with a toolbar at the top. Below the toolbar, a SQL query is entered in a text area:

```
5  
6 • select * from client_master order by Client_Name desc; #descending order  
7  
8  
9
```

Below the query, a 'Result Grid' is displayed with the following data:

	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
	101	Elon Musk	Ecovillage 2	Delhi NCR	11000.00	10000.00	NULL	NULL	NULL

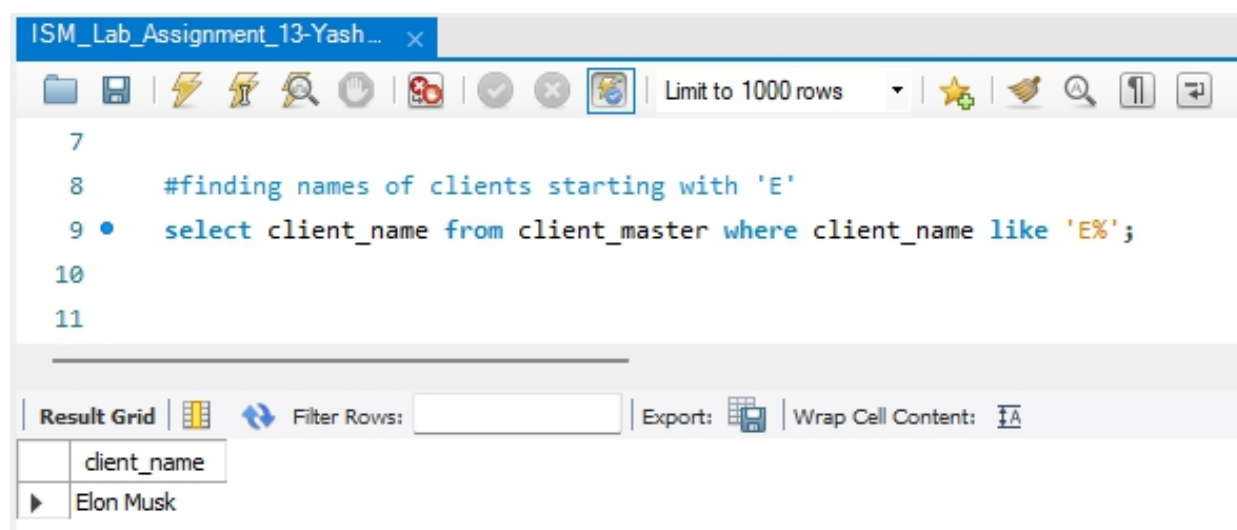
Task 3: List the Customer Names beginning with the letter 'E'.

This task can be completed using the 'like' keyword. Pattern Matching is used to match specific patterns to find records in our data of the table. It uses the 'LIKE' Operator. The LIKE Operator allows comparison of one string value with other string value. This is achieved using wildcard characters -

1. % : This allows to match any string of any length
2. _ : This allows to match just one single character

The syntax for this is -

```
Select <columnName> from <tablename> where <columnname> LIKE  
'(condition)';
```



The screenshot shows a database application window with a toolbar at the top. Below the toolbar, a SQL query is entered in a text area:

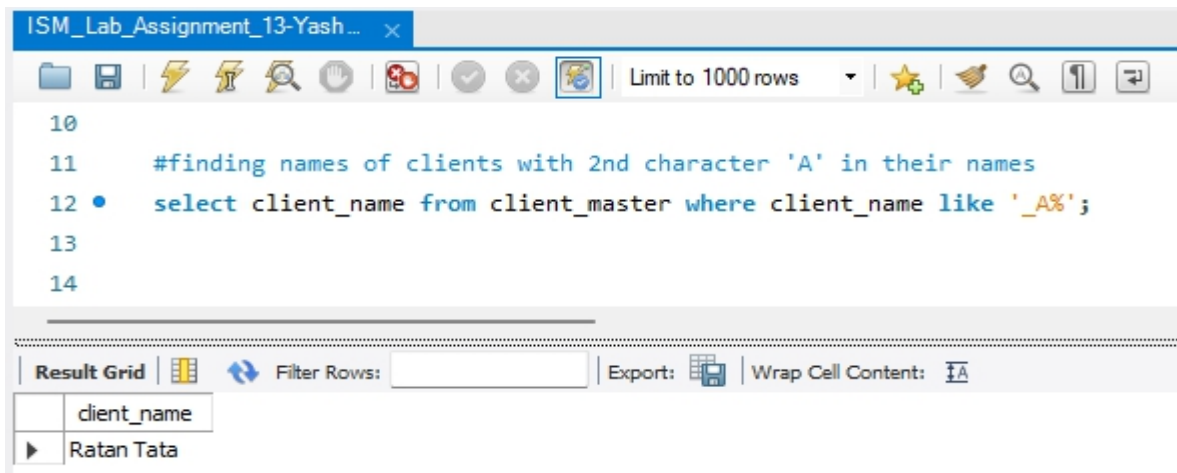
```
7  
8 #finding names of clients starting with 'E'  
9 • select client_name from client_master where client_name like 'E%';  
10  
11
```

Below the query, a 'Result Grid' is displayed with the following data:

	client_name
▶	Elon Musk

Task 4: List the names of Clients that have 2nd character 'A' in their names.

The following task is completed using the 'like' command, with the '_' (underscore) and the % (percentage) wild characters.



The screenshot shows a SQL IDE window titled 'ISM_Lab_Assignment_13-Yash...'. The query editor contains the following SQL code:

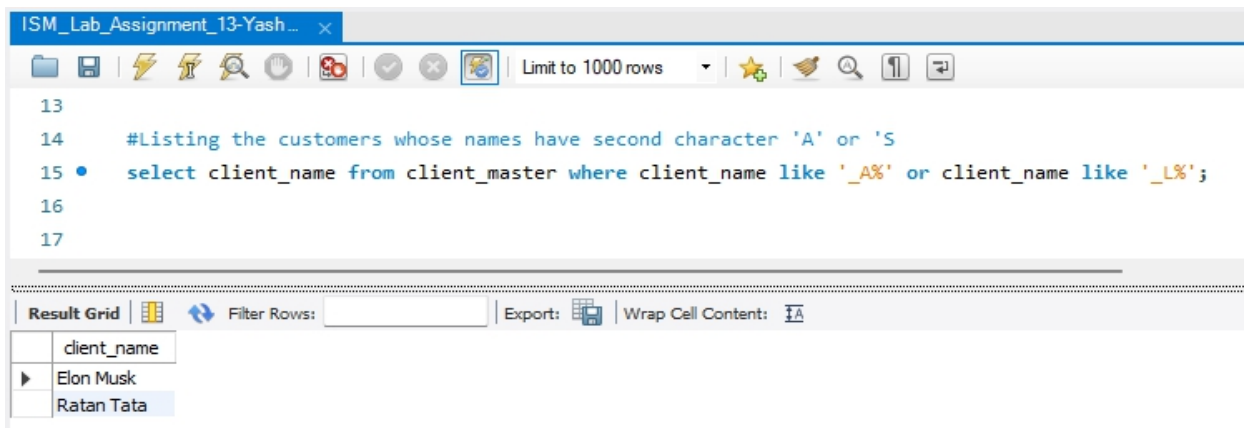
```
10
11 #finding names of clients with 2nd character 'A' in their names
12 • select client_name from client_master where client_name like '_A%';
13
14
```

Below the query editor, the 'Result Grid' is displayed with the following data:

client_name
Ratan Tata

Task 5: List the customers whose names have second character 'A' or 'L'.

The following task is completed using the 'like' command, with the '_' (underscore) and the % (percentage) wild character, along with the 'OR' operator .



The screenshot shows a SQL IDE window titled 'ISM_Lab_Assignment_13-Yash...'. The query editor contains the following SQL code:

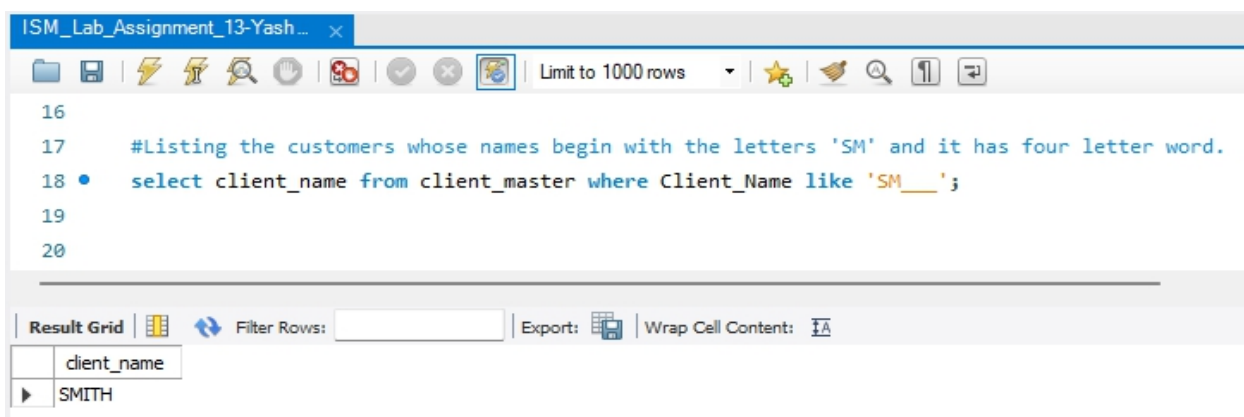
```
13
14 #Listing the customers whose names have second character 'A' or 'S'
15 • select client_name from client_master where client_name like '_A%' or client_name like '_L%';
16
17
```

Below the query editor, the 'Result Grid' is displayed with the following data:

client_name
Elon Musk
Ratan Tata

Task 6: List the customers whose names begin with the letters 'SM' and it has five letter word.

This task can be completed using the 'like' operator, along with the '_' (underscore) wild character.



The screenshot shows a SQL IDE window titled 'ISM_Lab_Assignment_13-Yash...'. The query editor contains the following SQL code:

```
16
17 #Listing the customers whose names begin with the letters 'SM' and it has four letter word.
18 • select client_name from client_master where Client_Name like 'SM___';
19
20
```

Below the query editor, the 'Result Grid' is displayed with the following data:

client_name
SMITH