

## LAB 5-U24AI041

### Question 1 : Use Employee table from Assignment 2.

- a) Display the list of employees whose name starts with 'A'.

#### Query:

```
use lab2;  
select * from Employee where E_Name like "A%";
```

#### Output:

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cel

	EmpID	E_Name	Department	ManagerID	JoiningDate	Salary	City
▶	1	Amit Sharma	Engineering	5001	2020-03-15	75000	Palanpur
	124	Arjun Singh	IT Support	5007	2023-02-14	60000	Surat
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

- b) Add a new column named city and display the list of employees whose city starts with letter 'm'.

#### Query:

```
alter table Employee add column City varchar(26);  
UPDATE Employee SET City = 'Palanpur' WHERE EmpId = 1;  
UPDATE Employee SET City = 'Delhi' WHERE EmpId = 12;  
UPDATE Employee SET City = 'Mumbai' WHERE EmpId = 100;  
UPDATE Employee SET City = 'Kolkata' WHERE EmpId = 104;  
UPDATE Employee SET City = 'Madhyapradesh' WHERE EmpId = 005;  
UPDATE Employee SET City = 'Hyderabad' WHERE EmpId = 006;  
UPDATE Employee SET City = 'Surat' WHERE EmpId = 124;  
UPDATE Employee SET City = 'Jaipur' WHERE EmpId = 108;  
UPDATE Employee SET City = 'Pune' WHERE EmpId = 029;  
UPDATE Employee SET City = 'Bengaluru' WHERE EmpId = 101;
```

```
select * from Employee where City like "M%";
```

#### Output:

✓	16	14:16:12	UPDATE Employee SET City = 'Palanpur' WHERE EmpId = 1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.047 sec
✓	17	14:16:12	UPDATE Employee SET City = 'Delhi' WHERE EmpId = 12	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.047 sec
✓	18	14:16:12	UPDATE Employee SET City = 'Mumbai' WHERE EmpId = 100	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.047 sec
✓	19	14:16:12	UPDATE Employee SET City = 'Kolkata' WHERE EmpId = 104	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.063 sec
✓	20	14:16:12	UPDATE Employee SET City = 'Madhyapradesh' WHERE EmpId = 005	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.016 sec
✓	21	14:16:12	UPDATE Employee SET City = 'Hyderabad' WHERE EmpId = 006	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.047 sec
✓	22	14:16:13	UPDATE Employee SET City = 'Surat' WHERE EmpId = 124	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.047 sec
✓	23	14:16:13	UPDATE Employee SET City = 'Jaipur' WHERE EmpId = 108	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.047 sec
✓	24	14:16:13	UPDATE Employee SET City = 'Pune' WHERE EmpId = 029	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.156 sec
✓	25	14:16:13	UPDATE Employee SET City = 'Bengaluru' WHERE EmpId = 101	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.047 sec

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap

	EmpID	E_Name	Department	ManagerID	JoiningDate	Salary	City
	100	Ravi Kumar	Finance	5003	2021-01-10	72000	Mumbai
	5	Karan Mehta	HR	5005	2022-06-01	80000	Madhyapradesh
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

c) Display the list of employees whose city ends with word 'pradesh'.

Query:

```
select* from Employee where city like '%pradesh';
```

Output:

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	EmpID	E_Name	Department	ManagerID	JoiningDate	Salary	City
▶	5	Karan Mehta	HR	5005	2022-06-01	80000	Madhyapradesh
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL

d) Display the list of employees who are having exactly five characters in their name.

Query:

```
select* from Employee where E_name like '_____';
```

Output:

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	EmpID	E_Name	Department	ManagerID	JoiningDate	Salary	City
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

e) Display the list of employees whose city is having only five characters.

Query:

```
select* from Employee where city like '_____';
```

Output:

Result Grid

Filter Rows:

Edit:

Export/Import:

	EmpID	E_Name	Department	ManagerID	JoiningDate	Salary	City
	12	Priya Desai	Marketing	5002	2019-07-22	68000	Delhi
	124	Arjun Singh	IT Support	5007	2023-02-14	60000	Surat
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

f) Find the names of employees whose name includes the substring "man".

Query:

```
select* from Employee where E_name like '%man%';
```

Output:

Result Grid							
Filter Rows:							
	EmpID	E_Name	Department	ManagerID	JoiningDate	Salary	City
▶	29	Manish Rao	HR	5005	2021-12-01	73000	Pune
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## Question 2 :Use Student table from Assignment 2.

- a) Display the list of students whose name starts with 'M'.

Query:

```
select * from Student where s_name like 'M%';
```

Output:

Result Grid						
Filter Rows:						
	RollNo	s_Name	Semester	DOB	AdmissionDate	HostelRoom
✱	NULL	NULL	NULL	NULL	NULL	NULL

- b) Add a new column named branch and display the list of employees whose branch starts with letter 'A'

Query:

```
alter table Student add column Branch varchar(26);
UPDATE Student SET Branch = 'Information Technology' WHERE RollNo = 121;
UPDATE Student SET Branch = 'Mechanical' WHERE RollNo = 170;
UPDATE Student SET Branch = 'Electrical' WHERE RollNo = 113;
UPDATE Student SET Branch = 'Computer Science' WHERE RollNo = 104;
UPDATE Student SET Branch = 'Civil' WHERE RollNo = 205;
UPDATE Student SET Branch = 'Electronics' WHERE RollNo = 606;
UPDATE Student SET Branch = 'Artificial Intelligence' WHERE RollNo = 07;
UPDATE Student SET Branch = 'Chemical' WHERE RollNo = 870;
UPDATE Student SET Branch = 'Biomedical' WHERE RollNo = 199;
UPDATE Student SET Branch = 'Aerospace' WHERE RollNo = 100;
select * from Student where Branch like "A%";
```

Output:

21	11:48:31	alter table Student add branch varchar(30)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
22	11:48:47	UPDATE Student SET branch = 'AI' WHERE RollNo = 101	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
23	11:48:47	UPDATE Student SET branch = 'Electrical' WHERE RollNo = 102	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
24	11:48:47	UPDATE Student SET branch = 'Mechanical' WHERE RollNo = 203	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
25	11:48:47	UPDATE Student SET branch = 'CS' WHERE RollNo = 208	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
26	11:48:47	UPDATE Student SET branch = 'Mechanical' WHERE RollNo = 305	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
27	11:48:47	UPDATE Student SET branch = 'Civil' WHERE RollNo = 106	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
28	11:48:47	UPDATE Student SET branch = 'Chemical' WHERE RollNo = 07	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
29	11:48:47	UPDATE Student SET branch = 'MNC' WHERE RollNo = 215	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
30	11:48:47	UPDATE Student SET branch = 'IC' WHERE RollNo = 109	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
31	11:48:47	UPDATE Student SET branch = 'AI' WHERE RollNo = 310	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Result Grid		Filter Rows:		Edit:		Export/Import:	
	RollNo	s_Name	Semester	DOB	AdmissionDate	HostelRoom	Branch
▶	100	Sedha	1	2024-07-04	2025-08-09	360	Aerospace
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL

c) Display the list of students who are having exactly five characters in their name.

Query:

```
select* from Student where s_name like '_____';
```

Output:

Result Grid		Filter Rows:		Edit:		Export/Import:		Wr
	RollNo	s_Name	Semester	DOB	AdmissionDate	HostelRoom	Branch	
▶	7	Umang	8	2013-12-05	2017-05-14	305	Artificial Intelligence	
	100	Sedha	1	2024-07-04	2025-08-09	360	Aerospace	
	113	Vivek	3	2013-08-14	2014-08-14	189	Electrical	
	199	Harsh	3	2021-09-24	2025-08-14	248	Biomedical	
	870	Kavya	4	2010-07-04	2019-07-19	981	Chemical	
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

d) Add a new column named city and display the list of students whose city is having only ten characters.

Query:

```
alter table Student add city varchar(30);
UPDATE Student SET city = 'Palanpur' WHERE RollNo = 101;
UPDATE Student SET city = 'Unjha' WHERE RollNo = 102;
UPDATE Student SET city = 'Surat' WHERE RollNo = 203;
UPDATE Student SET city = 'Ahmedabad' WHERE RollNo = 208;
UPDATE Student SET city = 'Mehsana' WHERE RollNo = 305;
UPDATE Student SET city = 'Gandhinagar' WHERE RollNo = 106;
UPDATE Student SET city = 'Uttarpradesh' WHERE RollNo= 07;
UPDATE Student SET city = 'Navsari' WHERE RollNo = 215;
UPDATE Student SET city = 'Bharuch' WHERE RollNo = 109;
UPDATE Student SET city = 'Baroda' WHERE RollNo = 310;
select* from Student where city like '_____';
```

Output:

Result Grid								
RollNo	s_Name	Semester	DOB	AdmissionDate	HostelRoom	Branch	City	
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

  

Action Output					Duration / Fetch	
#	Time	Action	Message			
✓ 56	14:40:38	UPDATE Student SET City = 'Kolkata' WHERE RollNo = 104	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0		0.031 sec	
✓ 57	14:40:38	UPDATE Student SET City = 'Madhyapradesh' WHERE RollNo = 205	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0		0.016 sec	
✓ 58	14:40:38	UPDATE Student SET City = 'Hyderabad' WHERE RollNo = 606	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0		0.016 sec	
✓ 59	14:40:38	UPDATE Student SET City = 'Surat' WHERE RollNo = 07	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0		0.031 sec	
✓ 60	14:40:38	UPDATE Student SET City = 'Jaipur' WHERE RollNo = 870	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0		0.016 sec	
✓ 61	14:40:38	UPDATE Student SET City = 'Pune' WHERE RollNo = 199	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0		0.078 sec	
✓ 62	14:40:38	UPDATE Student SET City = 'Bengaluru' WHERE RollNo = 100	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0		0.063 sec	
✓ 63	14:40:38	select * from Student where City like "_____" LIMIT 0, 1000	0 row(s) returned		0.016 sec / 0.000 sec	

e) Find the names of students whose name includes the substring "sh".

Query:

```
select * from Student where s_name like '%sh%';
```

Output:

Result Grid								
RollNo	s_Name	Semester	DOB	AdmissionDate	HostelRoom	Branch	City	
199	Harsh	3	2021-09-24	2025-08-14	248	Biomedical	Pune	
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

**Question 3 :** Create table Customers with this schema: (CustomerID, CustomerName, ContactName, Address, City, PostalCode, Country)

Query:

```
use lab5;

create table Customers(
    CustomerID varchar(50) primary key,
    CustomerName varchar(65),
    ContactNo int(10),
    Address text (100),
    City varchar(19),
    PostalCode int(6),
```





c) Return all customers with a city starting with any character, followed by "pradesh".

Query:

```
select* from Customers where City like '%pradesh';
```

Output:

[illegible]

d) Return all customers with a city starting with "S", followed by any four characters, ending with "at".

Query:

```
select* from Customers where City like 'S__at';
```

Output:

[illegible]

**e) Return all customers from Mumbai.**

Query:

```
select* from Customers where City='Mumbai';
```

Output:

[illegible]