DBMS PRACTICAL NO.: 08

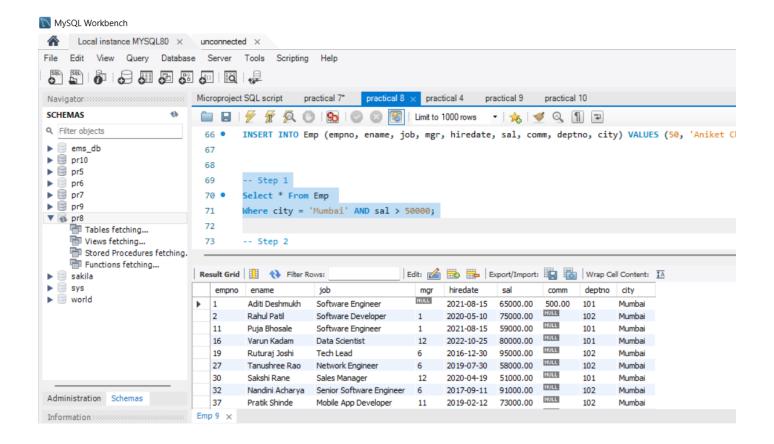**Name: yash ajay magar**

Experiment No 08: Apply built-in Logical operators on given data

EXERCISE:

     1. Consider the following schema Emp(empno,ename,job,mgr,hiredate,sal,comm,deptno)

   Write queries for the following:

i.   Display employees whose city is 'Mumbai' and earns more than 50000

ii.   Display employees who job is Clerk or commission is 500

iii.   Display details of employees whose salary is between 20000 and 50000.

iv.   Display details of employees who stays at Mumbai, Pune, Nashik or Nagpur _Create user Jay and implement commands on EMP and Dept:_

1)   Display employees who job is Clerk or commission is 500

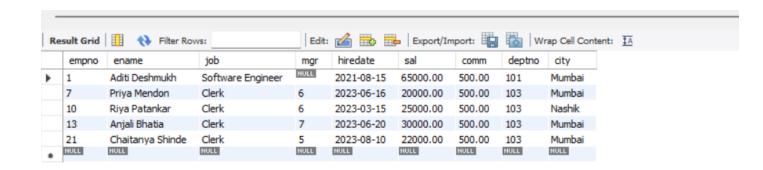| empno	ename	job	mgr	hiredate	sal	comm	deptno	city
1	Aditi Deshmukh	Software Engineer	NULL	2021-08-15	65000.00	500.00	101	Mumbai
2	Rahul Patil	Software Developer	1	2020-05-10	75000.00	NULL	102	Mumbai
11	Puja Bhosale	Software Engineer	1	2021-08-15	59000.00	NULL	101	Mumbai
16	Varun Kadam	Data Scientist	12	2022-10-25	80000.00	NULL	101	Mumbai
19	Ruturaj Joshi	Tech Lead	6	2016-12-30	95000.00	NULL	102	Mumbai
27	Tanushree Rao	Network Engineer	6	2019-07-30	58000.00	NULL	102	Mumbai
30	Sakshi Rane	Sales Manager	12	2020-04-19	51000.00	NULL	101	Mumbai
32	Nandini Acharya	Senior Software Engineer	6	2017-09-11	91000.00	NULL	102	Mumbai
37	Pratik Shinde	Mobile App Developer	11	2019-02-12	73000.00	NULL	102	Mumbai

Emp 9 ×

Output

Action Output ▾

#	Time	Action	Message
✓ 49	17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno, city) VALUES (46, 'Deepak Joshi', '...	1 row(s) affected
✓ 50	17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno, city) VALUES (47, 'Bhuvaneshwar ...	1 row(s) affected
✓ 51	17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno, city) VALUES (48, 'Neelam Jadhaw'...	1 row(s) affected
✓ 52	17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, c INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno,	
✓ 53	17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno, city) VALUES (50, 'Aniket Chavan', ...	1 row(s) affected
✓ 54	17:55:12	Select * From Emp Where city = 'Mumbai' AND sal > 50000 LIMIT 0, 1000	12 row(s) returned

1. *Display employees who job is Clerk or commission is 500*

Navigator

SCHEMAS

Q Filter objects

▶ ems_db
▶ pr10
▶ pr5
▶ pr6
▶ pr7
▶ pr9
▼ pr8
  ▸ Tables fetching...
  ▸ Views fetching...
  ▸ Stored Procedures fetching.
  ▸ Functions fetching...
▶ sakila
▶ sys
▶ world

Microproject SQL script | practical 7* | practical 8 × | practical 4 | practical 9 | practical 10

Limit to 1000 rows

```
71      Where city = 'Mumbai' AND sal > 50000;
72
73      -- Step 2
74 •    Select * From Emp
75      Where job = 'clerk' OR comm = 500;
76
77      -- step 3
78 •    Select * From Emp
```

Result Grid | ⬛ | ↻ Filter Rows: | Edit: ✎ ⬚ ⬚ | Export/Import: ⬚ ⬚ | Wrap Cell Content: ĪA

empno	ename	job	mgr	hiredate	sal	comm	deptno	city
1	Aditi Deshmukh	Software Engineer	NULL	2021-08-15	65000.00	500.00	101	Mumbai
7	Priya Mendon	Clerk	6	2023-06-16	20000.00	500.00	103	Mumbai
10	Riya Patankar	Clerk	6	2023-03-15	25000.00	500.00	103	Nashik
13	Anjali Bhatia	Clerk	7	2023-06-20	30000.00	500.00	103	Mumbai
21	Chaitanya Shinde	Clerk	5	2023-08-10	22000.00	500.00	103	Mumbai
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Administration Schemas

	empno	ename	job	mgr	hiredate	sal	comm	deptno	city
▶	1	Aditi Deshmukh	Software Engineer	NULL	2021-08-15	65000.00	500.00	101	Mumbai
	7	Priya Mendon	Clerk	6	2023-06-16	20000.00	500.00	103	Mumbai
	10	Riya Patankar	Clerk	6	2023-03-15	25000.00	500.00	103	Nashik
	13	Anjali Bhatia	Clerk	7	2023-06-20	30000.00	500.00	103	Mumbai
	21	Chaitanya Shinde	Clerk	5	2023-08-10	22000.00	500.00	103	Mumbai
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Emp 10 ×

Output

Action Output

#	Time	Action	Message
✓	50 17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno, city) VALUES (47, 'Bhuvaneshwar ...	1 row(s) affected
✓	51 17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno, city) VALUES (48, 'Neelam Jadhaw'...	1 row(s) affected
✓	52 17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno, city) VALUES (49, 'Vikrant Gehlot', '...	1 row(s) affected
✓	53 17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno, city) VALUES (50, 'Aniket Chavan', ...	1 row(s) affected
✓	54 17:55:12	Select * From Emp Where city = 'Mumbai' AND sal > 50000 LIMIT 0, 1000	12 row(s) returned
✓	55 17:59:50	Select * From Emp Where job = 'clerk' OR comm = 500 LIMIT 0, 1000	5 row(s) returned

2. *Display details of employees whose salary is between 20000 and 50000.*

MySQL Workbench

Local instance MYSQL80 ×   unconnected ×

File   Edit   View   Query   Database   Server   Tools   Scripting   Help

Navigator:

Microproject SQL script   practical 7*   practical 8 ×   practical 4   practical 9   practical 10

SCHEMAS

Q Filter objects

Limit to 1000 rows

```
70 •    Select * From Emp
71      Where city = 'Mumbai' AND sal > 50000;
72
73      -- Step 2
74 •    Select * From Emp
75      Where job = 'clerk' OR comm = 500;
76
77      -- step 3
```

- ems_db
- pr10
- pr5
- pr6
- pr7
- pr9
- ▼ pr8
  - Tables fetching...
  - Views fetching...
  - Stored Procedures fetching.
  - Functions fetching...
- sakila
- sys
- world

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

	empno	ename	job	mgr	hiredate	sal	comm	deptno	city
▶	3	Sneha Joshi	UI/UX Expert	1	2022-01-12	50000.00	NULL	103	Thane
	5	Neha Gaikwad	Backend Developer	2	2022-04-05	48000.00	NULL	102	Nashik
	7	Priya Mendon	Clerk	6	2023-06-16	20000.00	500.00	103	Mumbai
	9	Manish Tiwari	Software Tester	2	2021-09-29	37000.00	NULL	102	Pune
	10	Riya Patankar	Clerk	6	2023-03-15	25000.00	500.00	103	Nashik
	13	Anjali Bhatia	Clerk	7	2023-06-20	30000.00	500.00	103	Mumbai
	14	Shivam Chavan	System Analyst	1	2019-10-22	45000.00	NULL	102	Nashik
	18	Rachana Borate	Support Engineer	8	2023-02-01	38000.00	NULL	103	Pune
	21	Chaitanya Shinde	Clerk	5	2023-08-10	22000.00	500.00	103	Mumbai

Administration   Schemas

Information

Emp 11 ×

Output

3. *Display details of employees who stays at Mumbai, Pune, Nashik or Nagpur Create user Jay and implement commands on EMP and Dept*

Result Grid		Filter Rows:		Edit:			Export/Import:			Wrap Cell Content:

	empno	ename	job	mgr	hiredate	sal	comm	deptno	city
▶	1	Aditi Deshmukh	Software Engineer	NULL	2021-08-15	65000.00	500.00	101	Mumbai
	2	Rahul Patil	Software Developer	1	2020-05-10	75000.00	NULL	102	Mumbai
	4	Vivek Kulkarni	Frontend Developer	2	2019-11-25	55000.00	NULL	101	Pune
	5	Neha Gaikwad	Backend Developer	2	2022-04-05	48000.00	NULL	102	Nashik
	6	Saurabh Nair	Project Manager	NULL	2018-07-06	90000.00	NULL	101	Nagpur
	7	Priya Mendon	Clerk	6	2023-06-16	20000.00	500.00	103	Mumbai
	9	Manish Tiwari	Software Tester	2	2021-09-29	37000.00	NULL	102	Pune
	10	Riya Patankar	Clerk	6	2023-03-15	25000.00	500.00	103	Nashik
	11	Puja Bhosale	Software Engineer	1	2021-08-15	59000.00	NULL	101	Mumbai

Emp 12 ✕

Output

Action Output ▾

	#	Time	Action	Message
✓	52	17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno, city) VALUES (49, 'Vikrant Gehlot', '...	1 row(s) affected
✓	53	17:54:56	INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno, city) VALUES (50, 'Aniket Chavan', ...	1 row(s) affected
✓	54	17:55:12	Select * From Emp Where city = 'Mumbai' AND sal > 50000 LIMIT 0, 1000	12 row(s) returned
✓	55	17:59:50	Select * From Emp Where job = 'clerk' OR comm = 500 LIMIT 0, 1000	5 row(s) returned
✓	56	18:00:58	Select * From Emp Where sal between 20000 AND 50000 LIMIT 0, 1000	20 row(s) returned
✓	57	18:04:10	Select * From Emp Where city in ('Mumbai', 'Pune', 'Nashik', 'Nagpur') LIMIT 0, 1000	46 row(s) returned