

WEEK 5

YASH GUPTA

1BM21CS251

```
create database employee1;
use employee1;
create table dept(
dept_no int,
d_name varchar(10),
d_loc varchar(20),
primary key(dept_no)
);
create table emp(
emp_no int,
e_name varchar(10),
mgr_no int,
hiredate date,
sal real,
dept_no int,
primary key(emp_no),
foreign key (dept_no) references dept(dept_no)
);
create table incentives(
emp_no int,
```

```
incentive_date date,  
incentive_amount real,  
primary key(incentive_date),  
foreign key (emp_no) references emp(emp_no)  
);  
  
create table project(  
p_no int,  
p_name varchar(20),  
p_loc varchar(20),  
primary key(p_no)  
);  
  
create table assigned_to(  
emp_no int,  
p_no int,  
job_role varchar(20),  
foreign key (emp_no) references emp(emp_no),  
foreign key (p_no) references project(p_no)  
);
```

```
insert into dept values(1,'CSE','Siddapur');
```

```
insert into dept values(2,'ISE','Sirsi');
```

```
insert into dept values(3,'ECE','Pune');
```

```
insert into dept values(4,'EEE','Hubli');
```

```
insert into dept values(5,'IM','Mumbai');
```

```
insert into dept values(6,'BT','Goa');
```

```
select *from dept;
```

	dept_no	d_name	d_loc
▶	1	CSE	Siddapur
	2	ISE	Sirsi
	3	ECE	Pune
	4	EEE	Hubli
	5	IM	Mumbai
	6	BT	Goa
★	NULL	NULL	NULL

```
insert into emp values(1,'Akash',7,'2020-01-12',20000,1);
```

```
insert into emp values(2,'Bhuvan',8,'2020-03-14',40000,2);
```

```
insert into emp values(3,'Chris',9,'2021-02-25',35000,3);
```

```
insert into emp values(4,'Kiran',10,'2021-11-30',60000,4);
```

```
insert into emp values(5,'Pavan',11,'2022-3-10',52000,5);
```

```
insert into emp values(6,'Santosh',12,'2022-5-24',48000,6);
```

```
select *from emp;
```

	emp_no	e_name	mgr_no	hiredate	sal	dept_no
▶	1	Akash	7	2020-01-12	20000	1
	2	Bhuvan	8	2020-03-14	40000	2
	3	Chris	9	2021-02-25	35000	3
	4	Kiran	10	2021-11-30	60000	4
	5	Pavan	11	2022-03-10	52000	5
	6	Santosh	12	2022-05-24	48000	6
★	NULL	NULL	NULL	NULL	NULL	NULL

```

insert into project values(1,'pro1','Bengaluru');
insert into project values(2,'pro2','Pune');
insert into project values(3,'pro3','Hyderabad');
insert into project values(4,'pro4','Hubli');
insert into project values(5,'pro5','Mysuru');
insert into project values(6,'pro6','Goa');
select *from project;

```

	p_no	p_name	p_loc
▶	1	pro 1	Bengaluru
	2	pro2	Pune
	3	pro3	Hyderabad
	4	pro4	Hubli
	5	pro5	Mysuru
	6	pro6	Goa
✱	NULL	NULL	NULL

```

insert into incentives values(1,'2021-01-12',15000);
insert into incentives values(2,'2021-12-12',8000);
insert into incentives values(3,'2022-06-09',6500);
insert into incentives values(4,'2022-11-29',11000);
insert into incentives values(5,'2023-05-30',9800);
insert into incentives values(6,'2023-08-17',7000);
select *from incentives;

```

	emp_no	incentive_date	incentive_amount
▶	1	2021-01-12	15000
	2	2021-12-12	8000
	3	2022-06-09	6500
	4	2022-11-29	11000
	5	2023-05-30	9800
	6	2023-08-17	7000
✱	NULL	NULL	NULL

```

insert into assigned_to values(1,1,'Developer');
insert into assigned_to values(2,2,'Assistant');
insert into assigned_to values(3,3,'Co-assistant');
insert into assigned_to values(4,4,'Organiser');
insert into assigned_to values(5,5,'Manager');
insert into assigned_to values(6,6,'Supervisor');
select *from assigned_to;

```

	emp_no	p_no	job_role
▶	1	1	Developer
	2	2	Assistant
	3	3	Co-assistant
	4	4	Organiser
	5	5	Manager
	6	6	Supervisor

QUERIES:

1. Retrieve the employee numbers of all employees who work on project located in Bengaluru, Hyderabad, or Mysuru

```

SELECT e.EMP_NO FROM EMP E,assigned_to a,project p WHERE
a.emp_no=E.emp_no AND a.p_no=p.p_no AND p.p_loc IN
('bengaluru','hyderabad','mysuru');

```

	EMP_NO
▶	1
	3
	5

2. Get Employee ID's of those employees who didn't receive incentives

```

SELECT DISTINCT(E.EMP_NO) FROM EMP E, INCENTIVES I WHERE E.EMP_NO
NOT IN (SELECT EMP_NO FROM INCENTIVES);

```

	EMP_NO
▶	6

3. Write a SQL query to find the employees name, number, dept, job_role, department location and project location who are working for a project location same as his/her department location.

```
SELECT E.E_NAME,E.EMP_NO,D.D_NAME,A.JOB_ROLE,D.D_LOC,P.P_LOC FROM EMP E,DEPT D,ASSIGNED_TO A,PROJECT P WHERE D.DEPT_NO=E.DEPT_NO AND E.EMP_NO=A.EMP_NO AND A.P_NO=P.P_NO AND P.P_LOC=D.D_LOC;
```

	E_NAME	EMP_NO	D_NAME	JOB_ROLE	D_LOC	P_LOC
►	Kiran	4	EEE	Organiser	Hubli	Hubli
	Santosh	6	BT	Supervisor	Goa	Goa