

## Week 5

**Vinayak Prasad**

**Section 3D**

**Batch D4**

**Queries:**

```
create database employee;
```

```
use employee;
```

```
create table dept
```

```
(
```

```
deptno char(5) primary key,
```

```
dname varchar(20),
```

```
dloc varchar(20)
```

```
);
```

```
create table employee
```

```
(
```

```
empno char(5) primary key,
```

```
ename varchar(20),
```

```
mgr_no char(5),
```

```
hiredate date,
```

```
sal int,
```

```
deptno char(5),
```

```
foreign key(deptno) references dept(deptno) on delete cascade
```

```
);
```

```
create table incentives
```

```
(  
empno char(5),  
incentive_date date primary key,  
incentive_amount int,  
foreign key(empno) references employee(empno) on delete cascade  
);
```

create table project

```
(  
pno char(5) primary key,  
pname varchar(20),  
ploc varchar(20)  
);
```

create table assigned\_to

```
(  
empno char(5),  
pno char(5) primary key,  
job_role varchar(20),  
foreign key(empno) references employee(empno) on delete cascade  
);
```

```
insert into dept values('D1','Engineering','Bangalore'),('D2','Sales & Marketing',  
'Hyderabad'),('D3','Development','Mysore'),  
('D4','Finance','Pune'),('D5','HR','Delhi'),('D6','R&D','Mangalore');  
select * from dept;
```

	deptno	dname	dloc
▶	D1	Engineering	Bangalore
	D2	Sales & Marketing	Hyderabad
	D3	Development	Mysore
	D4	Finance	Pune
	D5	HR	Delhi
	D6	R&D	Mangalore
✱	NULL	NULL	NULL

```

insert into employee values('E1','Virat','M1','2017-05-13','5000','D1'),('E2','Abraham','M1','2018-07-03','10000','D1'),
('E3','Rahul','M2','2017-11-29','3000','D2'),('E4','Ganesh','M2','2019-05-28','6000','D3'),('E5','Prasad','M5','2018-08-21','5000','D4'),
('E6','Ram','M1','2020-04-05','8900','D1'),('E7','Abhinav','M6','2020-02-14','8900','D2'),('E8','Chandra','M3','2021-08-31','8800','D3');

select * from employee;

```

	empno	ename	mgr_no	hiredate	sal	deptno
▶	E1	Virat	M1	2017-05-13	5000	D1
	E2	Abraham	M1	2018-07-03	10000	D1
	E3	Rahul	M2	2017-11-29	3000	D2
	E4	Ganesh	M2	2019-05-28	6000	D3
	E5	Prasad	M5	2018-08-21	5000	D4
	E6	Ram	M1	2020-04-05	8900	D1
	E7	Abhinav	M6	2020-02-14	8900	D2
	E8	Chandra	M3	2021-08-31	8800	D3
✱	NULL	NULL	NULL	NULL	NULL	NULL

```

insert into project values('P18','Machine Learning','Bangalore'),('P17','AI','Delhi'),('P22','Full Stack','Hyderabad'),
('P12','Quantum Computing','Pune'),('P20','Blockchain','Mangalore'),('P08','Web dev','Mysore'),('P29','Data analytics','Chennai');

select * from project;

```

	pno	pname	ploc
▶	P08	Web dev	Mysore
	P12	Quantum Computing	Pune
	P17	AI	Delhi
	P18	Machine Learning	Bangalore
	P20	Blockchain	Mangalore
	P22	Full Stack	Hyderabad
	P29	Data analytics	Chennai
*	NULL	NULL	NULL

insert into assigned\_to

values('E1','P22','Controller'),('E2','P18','Technician'),('E3','P08','Cloud Engineer'),

('E4','P12','Supervisor'),('E5','P20','Developer'),('E6','P17','AI Engineer'),('E7','P29','Data Scientist');

select \* from assigned\_to;

	empno	pno	job_role
▶	E3	P08	Cloud Engineer
	E4	P12	Supervisor
	E6	P17	AI Engineer
	E2	P18	Technician
	E5	P20	Developer
	E1	P22	Controller
	E7	P29	Data Scientist
*	NULL	NULL	NULL

insert into incentives values('E1','2019-12-19','2800'),('E2','2020-08-01','5400'),

('E3','2018-01-10','3000'),('E4','2020-06-06','3000'),('E5','2019-10-19','1500');

select \* from incentives;

	empno	incentive_date	incentive_amount
▶	E3	2018-01-10	3000
	E5	2019-10-19	1500
	E1	2019-12-19	2800
	E4	2020-06-06	3000
	E2	2020-08-01	5400
*	NULL	NULL	NULL

```
select e.ename,p.pname,p.ploc from employee e, project p, assigned_to a
where e.empno=a.empno and a.pno=p.pno and p.ploc
in('Bangalore','Hyderabad','Mysore');
```

	ename	pname	ploc
▶	Rahul	Web dev	Mysore
	Abraham	Machine Learning	Bangalore
	Virat	Full Stack	Hyderabad

```
select empno from employee where empno not in(select empno from
incentives);
```

	empno
▶	E6
	E7
	E8
*	NULL

```
select e.ename,e.empno,d.dname,a.job_role,d.dloc,p.ploc from employee
e,dept d,assigned_to a, project p where e.empno=a.empno and
e.deptno=d.deptno and p.ploc=d.dloc;
```

	ename	empno	dname	job_role	dloc	ploc
▶	Ganesh	E4	Development	Supervisor	Mysore	Mysore
	Prasad	E5	Finance	Developer	Pune	Pune
	Virat	E1	Engineering	Controller	Bangalore	Bangalore
	Abraham	E2	Engineering	Technician	Bangalore	Bangalore
	Ram	E6	Engineering	AI Engineer	Bangalore	Bangalore
	Rahul	E3	Sales & Marketing	Cloud Engineer	Hyderabad	Hyderabad
	Abhinav	E7	Sales & Marketing	Data Scientist	Hyderabad	Hyderabad