

WEEK 5

EMPLOYEE DATABASE

```
create database EmployeeDB;  
use EmployeeDB;
```

```
create table DEPT  
(dept_no char(20),  
  dname varchar(20),  
  dloc varchar(20),  
  primary key(dept_no)  
);
```

```
create table Employee  
(empno char(20),  
  ename varchar(20),  
  mgr_no char(20),  
  hiredate date,  
  sal int,  
  dept_no char(20),  
  primary key(empno),  
  foreign key(dept_no) references DEPT(dept_no) on delete cascade  
);
```

```
create table Project  
(pno char(20),  
  pname varchar(20),  
  ploc varchar(20),  
  primary key(pno)  
);
```

```
create table Assigned_To
(empno char(20),
pno char(20),
job_role varchar(20),
primary key(empno,pno),
foreign key(empno) references Employee(empno) on delete cascade,
foreign key(pno) references Project(pno) on delete cascade
);
```

```
create table Incentives
(empno char(20),
incentive_date date,
incentive_amount int,
primary key(empno,incentive_date),
foreign key(empno) references Employee(empno) on delete cascade
);
```

```
show tables;
```

```
desc Employee;
desc DEPT;
desc Project;
desc Assigned_To;
desc Incentives;
```

- Enter greater than five tuples for each table.

insert into dept values('D1','Business Development','Bangalore'),('D2','Sales & Marketing','Hyderabad'),('D3','Development','Mysore'),

('D4','Accounts and Finance','Kundapura'),('D5','HR','Udupi'),('D6','R&D','Mangalore');

select * from dept;

dept_no	dname	dloc
D1	Business Development	Bangalore
D2	Sales & Marketing	Hyderabad
D3	Development	Mysore
D4	Accounts and Finance	Kundapura
D5	HR	Udupi
D6	R&D	Mangalore
NULL	NULL	NULL

insert into employee values ('E01','Virat Kohli','M1','2010-11-11','5000','D1'),('E02','AB de Villiers','M1','2011-07-03','10000','D1'),

('E03','MS Dhoni','M2','2017-03-13','3000','D2'),('E04','KL Rahul','M2','2015-03-02','6000','D3'),

('E05','Rishab Panth','M5','2012-08-21','5000','D4'),('E06','Dinesh Karthik','M1','2020-02-02','8900','D1'),

('E07','Jadeja','M6','2020-02-02','8900','D2');

select * from Employee;

empno	ename	mgr_no	hiredate	sal	dept_no
E01	Virat Kohli	M1	2010-11-11	5000	D1
E02	AB de Villiers	M1	2011-07-03	10000	D1
E03	MS Dhoni	M2	2017-03-13	3000	D2
E04	KL Rahul	M2	2015-03-02	6000	D3
E05	Rishab Panth	M5	2012-08-21	5000	D4
E06	Dinesh Karthik	M1	2020-02-02	8900	D1
E07	Jadeja	M6	2020-02-02	8900	D2
E08	Bumrha	M3	2018-02-02	8800	D3
NULL	NULL	NULL	NULL	NULL	NULL

```
insert into project values('P23','Front End','Bangalore'),('P17','Back End','Delhi'),('P25','Full Stack','Hyderbad'),
```

```
('P14','Android App','Udupi'),('P19','IOS App','Mangalore'),('P11','Web dev','Kundapura'),('P29','Data analytics','Mysore');
```

```
select * from project;
```

Result Grid			
Filter Rows:			
	pno	pname	ploc
▶	P11	Web dev	Kundapura
	P14	Android App	Udupi
	P17	Back End	Delhi
	P19	IOS App	Mangalore
	P23	Front End	Bangalore
	P25	Full Stack	Hyderbad
	P29	Data analytics	Mysore
✱	NULL	NULL	NULL

```
insert into assigned_to values('E01','P23','controller'),('E02','P14','technician'),('E03','P17','cloud engineer'),
```

```
('E04','P25','supervisor'),('E05','P11','advertizer'),('E06','P19','data scientist'),('E07','P29','Cloud Engineer');
```

```
select * from assigned_to;
```

Result Grid			
Filter Rows:			
	empno	pno	job_role
▶	E01	P23	controller
	E02	P14	technician
	E03	P17	cloud engineer
	E04	P25	supervisor
	E05	P11	advertizer
	E06	P19	data scientist
	E07	P29	Cloud Engineer
✱	NULL	NULL	NULL

```
insert into incentives values('E01','2020-12-19','2500'),('E02','2021-08-01','5300'),
('E03','2022-01-10','3000'),('E04','2017-06-06','2000'),('E05','2013-10-19','1000');

select * from incentives;
```

Result Grid			
	empno	incentive_date	incentive_amount
▶	E01	2020-12-19	2500
	E02	2021-08-01	5300
	E03	2022-01-10	3000
	E04	2017-06-06	2000
	E05	2013-10-19	1000
✱	NULL	NULL	NULL

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

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

Result Grid	
	empno
▶	E01
	E04
	E07

- **Get Employee ID's of those employees who didn't receive incentives**

```
select empno from employee where empno not in(select incentives.empno
from employee cross join incentives
on employee.empno=incentives.empno);
```

Result Grid	
	empno
▶	E06
	E07
	E08
*	NULL

- **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.ename,e.empno,d.dname,a.job_role,d.dloc,p.ploc
from employee e, dept d, assigned_to a, project p
where d.dept_no=e.dept_no
and e.empno=a.empno
and a.pno=p.pno
and p.ploc=d.dloc;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	ename	empno	dname	job_role	dloc	ploc
▶	Rishab Panth	E05	Accounts and Finance	advertizer	Kundapura	Kundapura
	Virat Kohli	E01	Business Development	controller	Bangalore	Bangalore