

## WEEK 5

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### CODE

#### QUERY 1

**Using Scheme diagram, Create tables by properly specifying the primary keys and the foreign keys.**

create database employees;

use employees;

```
create table project(  
    pno int,  
    ploc varchar(40),  
    pname varchar(40),  
    primary key(pno)  
);
```

```
create table dept(  
    deptno int,  
    dname varchar(40),  
    dloc varchar(40),  
    primary key(deptno)  
);
```

```
create table employee(  
    empno int,  
    ename varchar(40),  
    mgr_no int,  
    hiredate date,  
    sal int,
```

```
deptno int,  
primary key (empno),  
foreign key (deptno) references dept(deptno) on delete cascade  
);
```

```
create table incentives(  
empno int,  
incentive_date date,  
incentive_amount int,  
primary key(incentive_date),  
foreign key (empno) references employee(empno) on delete cascade  
);
```

```
create table assigned_to(  
empno int,  
pno int,  
job_role varchar(50),  
foreign key (pno) references project(pno) on delete cascade,  
foreign key (empno) references employee(empno) on delete cascade  
);
```

## QUERY 2

**Enter greater than five tuples for each table.**

```
insert into project values(1,"Bengaluru","Microsoft"),  
(2,"Mangalore","Reliance"),(3,"Mysuru","Dell"),(4,"Hyderabad","HP"),(5,"Chennai","Byjus");
```

```
insert into dept values (10,"Research","Bengaluru"),(20,"Finance","West  
Bengal"),(30,"Marketing","Bihar"),(40,"HR","Mumbai"),(50,"Sales","Hyderabad");
```

```
insert into employee values
```

```
(100,"airi",400,'2003-01-01',100000,10),(200,"haruka",500,'2004-02-02',100500,50),  
(300,"shizuku",100,'2005-03-03',200500,30), (400,"minoru", 500 , '2006-04-04',300500,40),
```

```
(500,"nene",300,'2007-05-05',200700,40), (600,"toya",200,'2008-06-06',200000,20),(700,"akito",200,'2009-07-07',200900,20);
```

```
insert into incentives values(100,'2012-01-17',6000),(200,'2012-02-18',7000),(300,'2012-03-19',8000),(500,'2013-04-20',9000),(600,'2013-05-21',10000);
```

```
insert into assigned_to values(100,1, "Manager"),(200,1, "Manager"),(300,2, "Researcher"),(400,3, "Businessman"),
(500,3, "Businessman"),(700,5, "CEO");
```

## OUTPUT

```
select * from project;
```

Result Grid			
	pno	ploc	pname
▶	1	Bengaluru	Microsoft
	2	Mangalore	Reliance
	3	Mysuru	Dell
	4	Hyderabad,	HP
	5	Chennai	Byjus
*	NULL	NULL	NULL

```
select * from dept;
```

Result Grid			
	deptno	dname	dloc
▶	10	Research	Bengaluru
	20	Finance	West Bengal
	30	Marketing	Bihar
	40	HR	Mumbai
	50	Sales	Hyderabad
*	NULL	NULL	NULL

```
select * from employee;
```

Result Grid						
		Filter Rows:		Edit:		
	empno	ename	mgr_no	hiredate	sal	deptno
▶	100	airi	400	2003-01-01	100000	10
	200	haruka	500	2004-02-02	100500	50
	300	shizuku	100	2005-03-03	200500	30
	400	minoru	500	2006-04-04	300500	40
	500	nene	300	2007-05-05	200700	40
	600	toya	200	2008-06-06	200000	20
	700	akito	200	2009-07-07	200900	20
*	NULL	NULL	NULL	NULL	NULL	NULL

select \* from incentives;

Result Grid			
		Filter Rows:	
	empno	incentive_date	incentive_amount
▶	100	2012-01-17	6000
	200	2012-02-18	7000
	300	2012-03-19	8000
	500	2013-04-20	9000
	600	2013-05-21	10000
*	NULL	NULL	NULL

select \* from assigned\_to;

Result Grid			
		Filter Rows:	
	empno	pno	job_role
▶	100	1	Manager
	200	1	Manager
	300	2	Researcher
	400	3	Businessman
	500	3	Businessman
	700	5	CEO

### QUERY 3

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

select a.empno employee\_number from project p, assigned\_to a  
where p.pno=a.pno and p.ploc in("Hyderabad","Bengaluru","Mysuru");

Result Grid	
	employee_number
▶	100
	200
	400
	500

#### QUERY 4

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

select e.empno from employee e where e.empno NOT IN (select i.empno from incentives i);

Result Grid	
	empno
▶	700
	400
*	NULL

#### QUERY 5

**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 their department location.**

select e.ename Emp\_name, e.empno Emp\_Number, d.dname Dept, a.job\_role Job\_Role, d.dloc Department\_Location, p.ploc Project\_Location from project p, dept d, employee e, assigned\_to a where e.empno=a.empno and p.pno=a.pno and e.deptno=d.deptno and p.ploc=d.dloc;

Result Grid		Filter Rows:		Export:	Wrap Cell Content:	
	emp_name	emp_number	department	jobrole	department_location	project_location
▶	airi	100	Research	Manager	Bengaluru	Bengaluru