

Week-5

```
create database employee;
```

```
use employee;
```

```
create table dept
```

```
( deptno int, dname varchar(50), dloc varchar(50),  
  primary key(deptno));
```

```
create table employee
```

```
( empno int, ename varchar(50), mgrno int, hiredate date, sal int, deptno int,  
  primary key(empno), foreign key(deptno) references dept(deptno)  
  on update cascade on delete cascade);
```

```
create table incentive
```

```
( empno int, incentivedate date, incentiveamount int,  
  primary key(incentivedate),  
  foreign key(empno) references employee(empno)  
  on update cascade on delete cascade);
```

```
create table project
```

```
(pno int, ploc varchar(50), pname varchar(50),  
  primary key(pno));
```

```
create table assignedto
```

```
( empno int,pno int, jobrole varchar(50),  
  foreign key(empno) references employee(empno),  
  foreign key(pno) references project(pno)  
  on update cascade on delete cascade);
```

```
insert into dept values(1,"Admin","Bangalore"),
```

```
(2,"Sales","Bangolre"),  
(3,"Finance","Hyderbad"),  
(4,"Marketing","Mysore"),  
(5,"Shipping","Hyderbad");  
insert into dept values(6,"Purchasing","Mysore");
```

```
insert into employee values(1,"Avinash",3,"2000-02-14",25000,1),  
(2,"Balaji",3,"1999-05-11",31000,3),  
(3,"Dinesh",NULL,"1992-01-26",46000,2),  
(4,"Chandan",3,"2001-05-21",28000,4),  
(5,"Aravind",2,"1998-09-22",17000,5);  
insert into employee values(6,"Amal",3,"2003-02-14",25000,6);
```

```
insert into incentive values(1,"2005-03-23",5000),  
(3,"2001-08-23",50000),  
(5,"2011-04-02",1500);
```

```
insert into project values(11,"Banglore","Documentation"),  
(12,"Banglore","Selling"),  
(13,"Hyderbad","Accounting"),  
(14,"Mysore","Advertising"),  
(15,"Hyderbad","Transportation");  
insert into project values(16,"Mysore","Purchasing");  
insert into project values(17,"Hubli","Presentation");
```

```
insert into assignedto values(1,11,"Administration"),  
(2,12,"Salesman"),  
(3,13,"Accounts"),
```

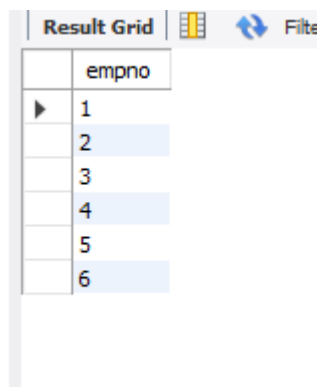
(4,14,"Advertising"),

(5,15,"Transporting");

insert into assignedto values(6,16,"Purchasing");

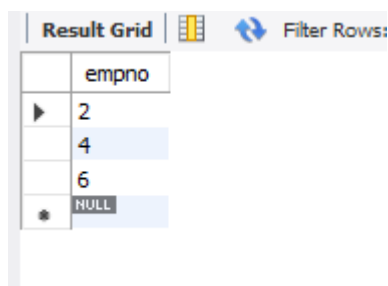
- Retrieve the employee numbers of all employees who work on project located in Bangalore, Hyderabad, or Mysore

```
select empno from assignedto e where e.pno=any(select p.pno from project p where ploc="Bangalore" or ploc="Hyderabad" or ploc="Mysore");
```



empno
1
2
3
4
5
6

- 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 incentive i);



empno
2
4
6
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 ename, e.empno empno, d.dname dname, a.jobrole jobrole, d.dloc dloc, p.ploc ploc  
from project p, dept d, employee e, assignedto a  
where e.empno=a.empno and p.pno=a.pno and e.deptno=d.deptno and p.ploc=d.dloc;
```

	ename	empno	dname	jobrole	dloc	ploc
▶	Avinash	1	Admin	Administration	Banglore	Banglore
	Chandan	4	Marketing	Advertising	Mysore	Mysore
	Aravind	5	Shipping	Transporting	Hyderabad	Hyderabad
	Amal	6	Purchasing	Purchasing	Mysore	Mysore

- Find the employee name, dept name and job_role of an employee who received max incentive in year 2005

```
select e.ename, d.dname, a.jobrole, max(i.incentiveamount) max_incentive
from employee e, dept d, incentive i, assignedto a
where incentivedate between "2005-01-01" and "2005-12-31";
```

Result Grid			Filter Rows:		Export:		Wrap Cell Content:
	ename	dname	jobrole	max_incentive			
▶	Avinash	Purchasing	Administration	55000			