

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"),
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(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","Presentatiom");
insert into assignedto values(1,11,"Administration"),
(2,12,"Salesman"),
(3,13,"Accounts"),
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(4,14,"Advertising"),

(5,15,"Transporting");

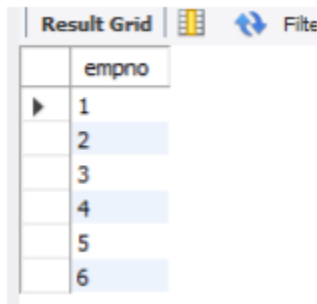
insert into assignedto values(6,16,"Purchasing")

1. 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");



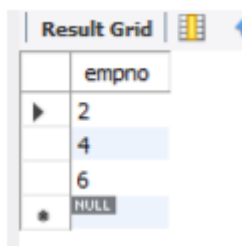
| empno |
|-------|
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |

2. 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 |

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.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 |

4. 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");

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| | | | | | |
|---|---------|---|---|-----------------------------------|------------------------------|
| Result Grid | |  |  | Filter Rows: <input type="text"/> | Export: <input type="text"/> |
| | ename | dname | jobrole | max_incentive | |
|  | Avinash | Purchasing | Administration | 55000 | |