

WEEK 5

```
create database Employee;

use Employee;

create table dept
(
deptno int,
dname varchar(20),
dloc varchar(20),
primary key(deptno)
);

create table employee
(
empno int,
ename varchar(20),
mgr_no int,
hiredate date,
sal double,
deptno int,
primary key(empno),
foreign key (deptno) references dept(deptno) on delete cascade on update cascade
);

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

create table project
```

```

(
pno int,
pname varchar(20),
ploc varchar(20),
primary key(pno)
);

create table assigned_to
(
empno int,
pno int,
job_role varchar(20),
primary key(empno,pno),
foreign key(empno) references employee(empno) on update cascade on delete cascade,
foreign key(pno) references project(pno) on update cascade on delete cascade
);

insert into dept values
(1,'CSE','bangalore'),
(2,'ISE','bangalore'),
(3,'AIML','hyderabad'),
(4,'ECE','mysuru'),
(5,'EEE','delhi'),
(6,'IEM','chennai');

insert into employee values(10,'Shreesha',21,'2000-03-03',100000,1),
(20,'Nishanth',10,'2003-02-02',90000,2),
(30,'Pratheek',10,'2006-03-03',80000,3),
(40,'Saikiran',20,'2007-07-06',70000,4),
(50,'Aditi',30,'2009-07-09',60000,5),
(60,'Nidheesh',40,'2013-08-03',50000,6),
(70,'Dhanya',40,'2009-08-22',50000,1),
(80,'Pavan',50,'2015-08-22',50000,2),
(90,'Preethi',50,'2020-04-22',60000,3),

```

```
(100,'Varshitha',60,'2021-10-22',55000,4);
insert into incentives values(10,'2002-09-02',30000),
(20,'2005-06-04',20000),
(30,'2008-02-25',10000),
(40,'2014-06-02',5000),
(50,'2017-09-06',3000),
(70,'2021-12-06',6000),
(80,'2021-12-06',4000),
(90,'2021-12-06',2000);
insert into project values(100,'p1','bangalore'),
(200,'p2','bangalore'),
(300,'p3','mysuru'),
(400,'p4','hyderabad'),
(500,'p5','delhi'),
(600,'p6','mumbai'),
(700,'p7','kolkata');
insert into assigned_to values(10,100,'manager'),
(20,200,'teamlead'),
(30,300,'analyst'),
(40,400,'programmer'),
(50,500,'teamlead'),
(60,600,'manager'),
(70,700,'teamlead');

select * from dept;

select * from employee;

select * from incentives;

select * from project;
```

```
select * from assigned_to;
```

```
select a.empno  
from assigned_to a,project p  
where p.pno=a.pno and p.ploc in ('bangalore','hyderabad','mysuru');
```

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

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

```
select e.ename,d.dname,a.job_role  
from employee e, dept d, assigned_to a  
where e.empno in(select empno  
from incentives  
where incentive_amount =  
(select max(incentive_amount)  
from incentives  
where incentive_date between '2021-01-01' and '2021-12-31'))  
and d.deptno=e.deptno and a.empno=e.empno;
```

```

85 • select * from dept;
86
87 • select * from employee;
88

```

Result Grid			
Filter Rows:			
	deptno	dname	dloc
▶	1	CSE	bangalore
	2	ISE	bangalore
	3	AIML	hyderabad
	4	ECE	mysuru
	5	EEE	delhi

```

87 • select * from employee;
88

```

Result Grid						
Filter Rows:						
	empno	ename	mgr_no	hiredate	sal	deptno
	40	Saikiran	20	2007-07-06	70000	4
	50	Aditi	30	2009-07-09	60000	5
	60	Nidheesh	40	2013-08-03	50000	6
	70	Dhanya	40	2009-08-22	50000	1
	80	Pavan	50	2015-08-22	50000	2
	90	Preethi	50	2020-04-22	60000	3
	100	Varshitha	60	2021-10-22	55000	4
•	NULL	NULL	NULL	NULL	NULL	NULL

```

88
89 • select * from incentives;
90

```

Result Grid			
Filter Rows:			
	empno	incentive_date	incentive_amount
▶	10	2002-09-02	30000
	20	2005-06-04	20000
	30	2008-02-25	10000
	40	2014-06-02	5000
	50	2017-09-06	3000
	70	2021-12-06	6000
	80	2021-12-06	4000
	90	2021-12-06	2000
•	NULL	NULL	NULL

```
91 • select * from project;
```

```
92
```

Result Grid   Filter Rows:

	pno	pname	ploc
▶	100	p1	bangalore
	200	p2	bangalore
	300	p3	mysuru
	400	p4	hyderabad
	500	p5	delhi
	600	p6	mumbai
	700	p7	kolkata
*	NULL	NULL	NULL

```
93 • select * from assigned_to;
```

```
94
```

```
95 • select a.empno
```

Result Grid   Filter Rows:

	empno	pno	job_role
▶	10	100	manager
	20	200	teamlead
	30	300	analyst
	40	400	programmer
	50	500	teamlead
	60	600	manager
	70	700	teamlead
*	NULL	NULL	NULL

```

95 • select a.empno
96 from assigned_to a, project p
97 where p.pno=a.pno and p.ploc in ('bangalore','hyderabad','mysuru');
98

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	empno			
▶	10			
	20			
	30			
	40			

```

99 • select empno
100 from employee
101 where empno not in(
102 select empno
103 from incentives);
104

```

Result Grid		Filter Rows:
	empno	
▶	100	
	60	
*	NULL	

```

105 • select e.ename, e.empno,d.dname,a.job_role, d.dloc,p.ploc
106 from employee e, dept d, project p, assigned_to a
107 where d.deptno=e.deptno and p.pno=a.pno and a.empno=e.empno and p.ploc=d.dloc;

```

Result Grid

Filter Rows:

Export:




Wrap Cell Content:

	ename	empno	dname	job_role	dloc	ploc
▶	Shreesha	10	CSE	manager	bangalore	bangalore
	Nishanth	20	ISE	teamlead	bangalore	bangalore
	Aditi	50	EEE	teamlead	delhi	delhi

```

109 • select e.ename,d.dname,a.job_role
110 from employee e, dept d, assigned_to a
111 where e.empno in(select empno
112 from incentives
113 where incentive_amount =
114 (select max(incentive_amount)
115 from incentives
116 where incentive_date between '2021-01-01' and '2021-12-31'))
117 and d.deptno=e.deptno and a.empno=e.empno;

```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	ename	dname	job_role
▶	Dhanya	CSE	teamlead