WEEK-5

CREATION OF TABLES

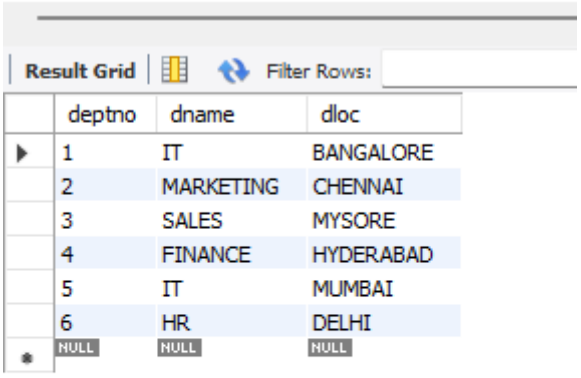
```
create database 1BM21CS050_EMPLOYEE;
use 1BM21CS050_EMPLOYEE;
create table Dept(
deptno int,
dname varchar (20),
dloc varchar(20),
PRIMARY KEY (deptno)
);
create table Employee(
empno int,
ename varchar(20),
mgr_no int,
hiredate int,
salary int,
deptno int,
PRIMARY KEY (empno),
FOREIGN KEY (deptno) REFERENCES Dept(deptno)
);
create table Project(
pno int,
ploc varchar(30),
pname varchar(20),
PRIMARY KEY (pno)
);
create table  Incentives(
empno int,
```

```
Incentives_date int,
Incentives_amount int,
PRIMARY KEY (Incentives_date),
FOREIGN KEY (empno) references Employee (empno)
);

create table Assigned_to(
empno int,
pno int,
job_role varchar(20),
PRIMARY KEY (empno, pno),
FOREIGN KEY (empno) REFERENCES Employee(empno),
FOREIGN KEY (pno) REFERENCES Project(pno)
);
```

2. INSERTION OF VALUES

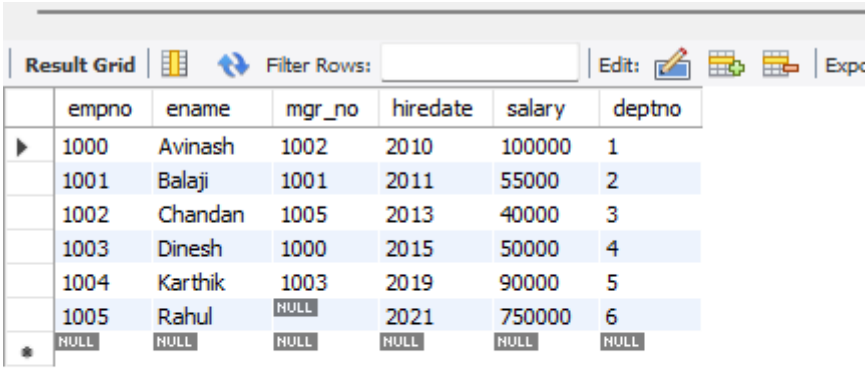
```
insert into Dept values(1, "IT", "BANGALORE");
insert into Dept values(2, "MARKETING", "CHENNAI");
insert into Dept values(3, "SALES", "MYSORE");
insert into Dept values(4, "FINANCE", "HYDERABAD");
insert into Dept values(5, "IT", "MUMBAI");
insert into Dept values(6, "HR", "DELHI");
select * Dept;
```



Result Grid | Filter Rows:

deptno	dname	dloc
1	IT	BANGALORE
2	MARKETING	CHENNAI
3	SALES	MYSORE
4	FINANCE	HYDERABAD
5	IT	MUMBAI
6	HR	DELHI
NULL	NULL	NULL

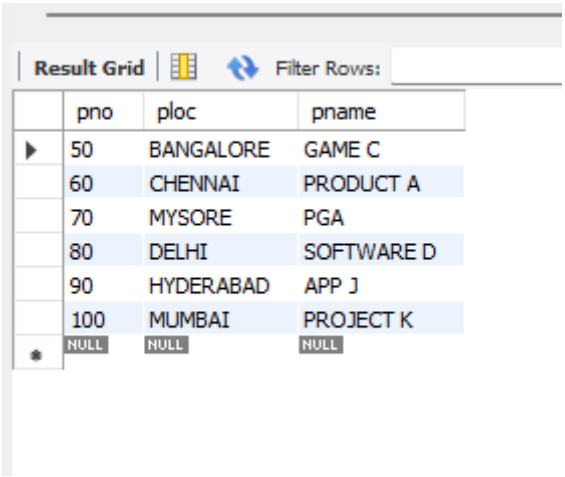
```
insert into Employee values(1000, "Avinash", 1002, 2010, 100000, 1);
insert into Employee values(1001, "Balaji", 1001, 2011, 55000, 2);
insert into Employee values(1002, "Chandan", 1005, 2013, 40000, 3);
insert into Employee values(1003, "Dinesh", 1000, 2015, 50000, 4);
insert into Employee values(1004, "Karthik", 1003, 2019, 90000, 5);
insert into Employee values(1005, "Rahul", NULL, 2021, 750000, 6);
select * from Employee;
```



Result Grid | Filter Rows: | Edit:

empno	ename	mgr_no	hiredate	salary	deptno
1000	Avinash	1002	2010	100000	1
1001	Balaji	1001	2011	55000	2
1002	Chandan	1005	2013	40000	3
1003	Dinesh	1000	2015	50000	4
1004	Karthik	1003	2019	90000	5
1005	Rahul	NULL	2021	750000	6
NULL	NULL	NULL	NULL	NULL	NULL

```
insert into Project values(50, "BANGALORE", "GAME C");
insert into Project values(60, "CHENNAI", "PRODUCT A");
insert into Project values(70, "MYSORE", "PGA");
insert into Project values(80, "DELHI", "SOFTWARE D");
insert into Project values(90, "HYDERABAD", "APP J");
insert into Project values(100, "MUMBAI", "PROJECT K");
select * from Project;
```

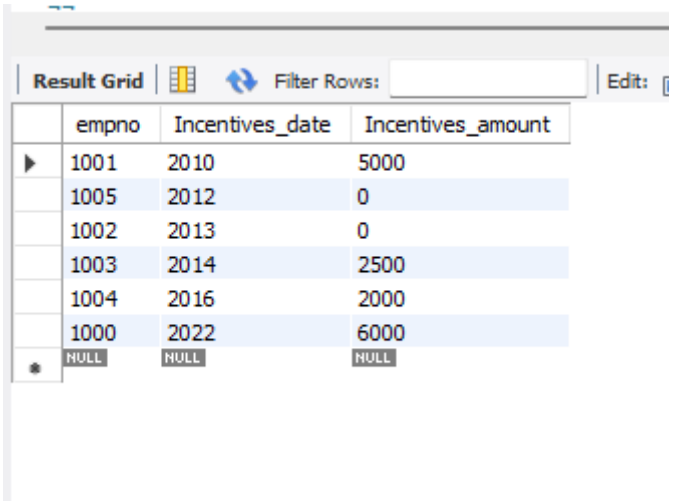


Result Grid | Filter Rows:

pno	ploc	pname
50	BANGALORE	GAME C
60	CHENNAI	PRODUCT A
70	MYSORE	PGA
80	DELHI	SOFTWARE D
90	HYDERABAD	APP J
100	MUMBAI	PROJECT K
NULL	NULL	NULL

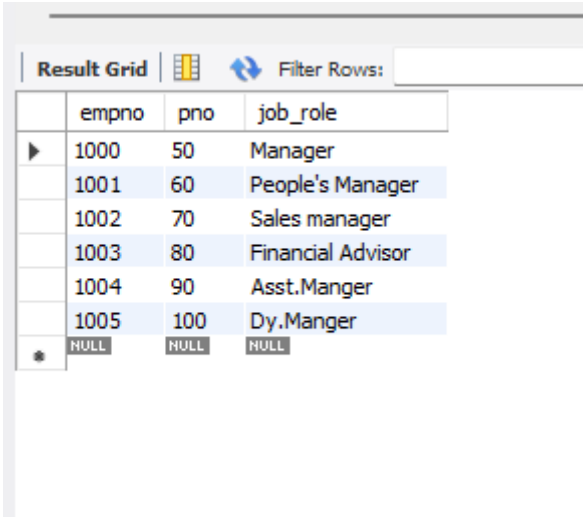
```
insert into Incentives values(1001, 2010, 5000);
```

```
insert into Incentives values(1002, 2013, 0);
insert into Incentives values(1003, 2014, 2500);
insert into Incentives values(1004, 2016, 2000);
insert into Incentives values(1005, 2012, 0);
insert into Incentives values(1000, 2022, 6000);
select * from Incentives;
```



empno	Incentives_date	Incentives_amount
1001	2010	5000
1005	2012	0
1002	2013	0
1003	2014	2500
1004	2016	2000
1000	2022	6000
NULL	NULL	NULL

```
insert into Assigned_to values(1000, 50, "Manager");
insert into Assigned_to values(1001, 60, "People's Manager");
insert into Assigned_to values(1002, 70, "Sales manager");
insert into Assigned_to values(1003, 80, "Financial Advisor");
insert into Assigned_to values(1004, 90, "Asst.Manger");
insert into Assigned_to values(1005, 100, "Dy.Manger");
select * from Assigned_to;
```

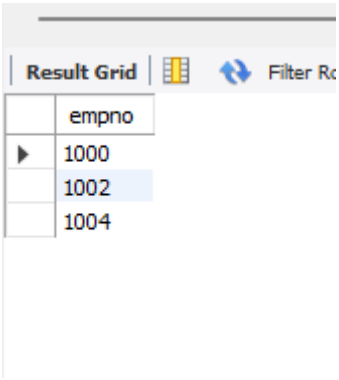


Result Grid | Filter Rows:

empno	pno	job_role
1000	50	Manager
1001	60	People's Manager
1002	70	Sales manager
1003	80	Financial Advisor
1004	90	Asst.Manger
1005	100	Dy.Manger
NULL	NULL	NULL

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

```
select empno from Assigned_to where  pno= ANY(select pno from Project where ploc="HYDERABAD" OR ploc = "BANGALORE" OR ploc="MYSORE");
```

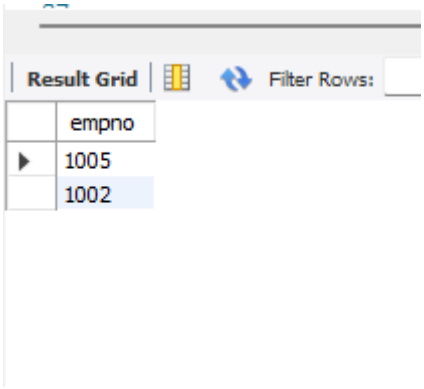


Result Grid | Filter Rc

empno
1000
1002
1004

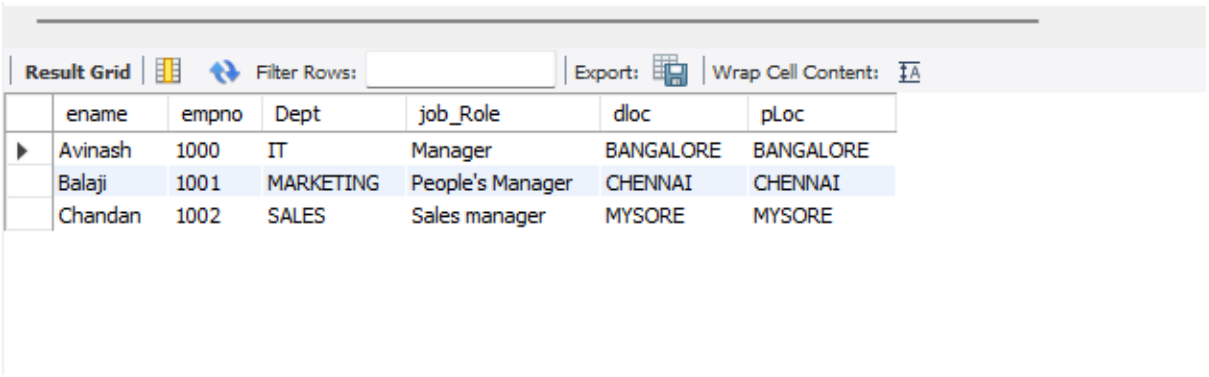
4. Get Employee ID’s of those employees who didn’t receive incentives

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



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 his/her department location.

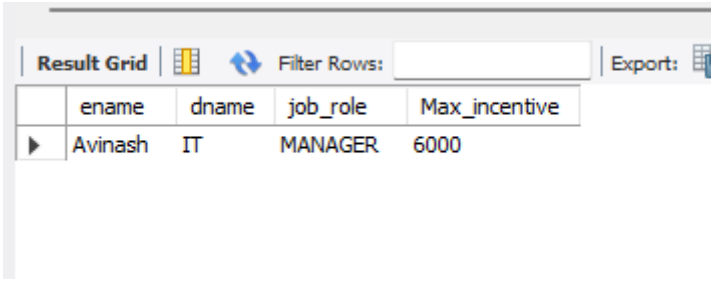
```
select e.ename ename, e.empno empno, d.Dname Dept,
a.job_role job_Role, d.Dloc dloc, p.ploc pLoc
from Project p, Dept d, Employee e, Assigned_to a
where e.empno=a.empno and p.pno=a.pno and
e.deptno=d.deptno and p.ploc=d.dloc;
```



SPOT QUERY

Find the employee name, dept name and job_role of an employee who received max incentive in year 2021

```
select e.ename, d.dname, a.job_role, MAX(i.Incentives_amount)
MAX_Incentive from Employee e, Dept d, Incentives i, Assigned_to
a where Incentives_date between '2016' and '2022';
```



Result Grid | Filter Rows: | Export:

ename	dname	job_role	Max_incentive
Avinash	IT	MANAGER	6000