

```
create database 1bm21cs046_emp_id;
use 1bm21cs046_emp_id;
create table dept(
d_no int,
d_name varchar (10),
d_loc varchar (30),
primary key(d_no)
);
create table project(
p_no int,
p_loc varchar(20),
p_name varchar(15),
PRIMARY KEY(p_no)
);
create table employee(
emp_no int,
emp_name varchar(10),
mgr_no int,
hiredate date,
sal real,
d_no int,
primary key(emp_no),
foreign key(d_no) references dept(d_no)
on update cascade on delete cascade
);

create table incentives(
emp_no int,
incentive_date date,
```

```
incentive_amt real,
primary key(incentive_date),
foreign key(emp_no) references employee(emp_no)
on update cascade on delete cascade
);
create table assigned(
emp_no int,
p_no int,
job_role varchar(10),
foreign key(emp_no) references employee(emp_no)
on update cascade on delete cascade,
foreign key(p_no) references project(p_no)
on update cascade on delete cascade
);
select *from employee;
select *from assigned;
select *from incentives;
select *from project;
select *from dept;
insert into dept values(100,'IT','mysore');
insert into dept values(200,'Legal Team','patna');
insert into dept values(300,'HR','delhi');
insert into dept values(400,'finance','panaji');
insert into dept values(500,'logistics','bangalore');
insert into dept values(600,'accounts','ahmedabad');
insert into dept values(700,'design','hyderabad');
insert into project values(10,'mysore','alpha');
insert into project values(20,'patna','tessera');
insert into project values(30,'delhi','hades');
insert into project values(40,'panaji','zeus');
insert into project values(50,'bangalore','jupiter');
```

```
insert into project values(60,'ahmedabad','io');
insert into employee values(01,'alex',01,'2001-01-21',11000,500);
insert into employee values(02,'balex',22,'2002-02-05',15000,100);
insert into employee values(03,'calex',03,'2003-03-08',20700,300);
insert into employee values(04,'dalex',44,'2004-04-09',25800,200);
insert into employee values(05,'ealex',55,'2005-05-10',80000,500);
insert into employee values(06,'falex',06,'2006-06-06',35000,500);
insert into employee values(07,'galex',77,'2007-07-07',40000,400);
insert into employee values(08,'halex',88,'2008-08-30',45000,100);
insert into employee values(09,'ialex',99,'2009-09-28',90000,200);
insert into employee values(10,'jalex',11,'2010-10-16',45000,300);
```

```
insert into incentives values(01,'2021-05-11',1000);
insert into incentives values(03,'2022-04-20',2000);
insert into incentives values(05,'2021-09-10',3000);
insert into incentives values(07,'2022-06-21',4000);
insert into incentives values(09,'2021-04-17',5000);
insert into incentives values(10,'2022-10-19',6000);
```

```
insert into assigned values(01,20,'doctor');
insert into assigned values(02,10,'training');
insert into assigned values(03,30,'supervisor');
insert into assigned values(04,60,'lawyer');
insert into assigned values(05,50,'mason');
insert into assigned values(06,50,'manager');
insert into assigned values(07,60,'medic');
insert into assigned values(08,60,'mechanic');
insert into assigned values(09,30,'engineer');
insert into assigned values(10,40,'architect');
select *from employee;
select *from assigned;
```

```
select *from incentives;
```

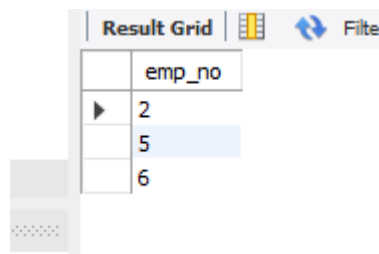
```
select *from project;
```

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

```
select *from dept;
```

```
select emp_no from assigned,project where assigned.p_no=project.p_no and project.p_loc in('mysore','bangalore','hydrebad');
```

```
select emp_no from employee where emp_no not in(select incentives.emp_no from employee cross join incentives on employee.emp_no=incentives.emp_no);
```

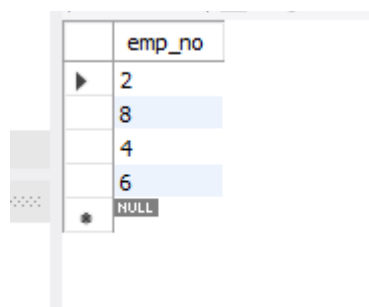


The screenshot shows a 'Result Grid' window with a table containing employee numbers. The table has a header row with 'emp\_no' and three data rows with values 2, 5, and 6. The row with value 5 is highlighted in blue.

emp_no
2
5
6

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

```
select e.emp_name,e.emp_no,d.d_name,a.job_role,d.d_loc,p.p_loc from employee e, dept d, assigned a, project p where d.d_no=e.d_no and e.emp_no=a.emp_no and a.p_no=p.p_no and p.p_loc=d.d_loc;
```





The screenshot shows a 'Result Grid' window with a table containing employee numbers. The table has a header row with 'emp\_no' and five data rows with values 2, 8, 4, 6, and NULL. The row with value 8 is highlighted in blue.

emp_no
2
8
4
6
NULL

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.emp_name,d.d_name,a.job_role
from employee e,dept d,assigned a
where e.emp_no in (select emp_no
from incentives
where incentive_amt=
(select max(incentive_amt)
from incentives
where incentive_date between'2021-01-01' and '2021-12-31'))
and d.d_no=e.d_no and a.emp_no=e.emp_no;
```

```
97  from employee cross join incentives
98  on employee.emp_no=incentives.emp_no);
99  • select e.emp_name,e.emp_no,d.d_name,a.job_role,d.d_loc,p.p_loc
100  from employee e, dept d, assigned a, project p
101  where d.d_no=e.d_no
102  and e.emp_no=a.emp_no
103  and a.p_no=p.p_no
104  and p.p_loc=d.d_loc;
```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	emp_name	emp_no	d_name	job_role	d_loc	p_loc
▶	balex	2	IT	training	mysore	mysore
	calex	3	HR	supervisor	delhi	delhi
	ealex	5	logistics	mason	bangalore	bangalore
	falex	6	logistics	manager	bangalore	bangalore

