

SWASTIK_week5_dbms

create database 1bm21cs228_employee;

use 1bm21cs228_employee;

```
create table DEPT(  
  DEPTNO int,  
  DNAME varchar (50),  
  DLOC varchar (50),  
  primary key(DEPTNO)  
);
```

```
create table project(  
  p_no int,  
  p_name varchar(50),  
  p_loc varchar(50),  
  PRIMARY KEY (p_no)  
);
```

```
create table employee(  
  emp_no int,  
  emp_name varchar(50),  
  mgr_no int,  
  hiredate date,  
  sal real,  
  DEPTNO int,  
  primary key(emp_no),  
  foreign key(DEPTNO) references DEPT(DEPTNO)  
  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(50),  
  
  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(111,'IT','chandigarh');
insert into DEPT values(222,'sales','bangalore');
insert into DEPT values(333,'HR','delhi');
insert into DEPT values(444,'construction','bangalore');
insert into DEPT values(555,'logistics','mumbai');
insert into DEPT values(666,'accounts','ahmedabad');
insert into DEPT values(777,'media_design','hyderabad');
```

```
insert into project values(10,'white_elephant','bangalore');
insert into project values(20,'white_house','delhi');
insert into project values(30,'p_one','mumbai');
insert into project values(40,'p_ten','ahmedabad');
insert into project values(50,'omega','bangalore');
insert into project values(60,'satan','hyderabad');
insert into project values(70,'aqua','chandigarh');
```

```
insert into employee values(101,'Muskaan',100,'2003-05-05',10000,111);
insert into employee values(102,'Zii',200,'2004-06-06',15000,222);
insert into employee values(103,'Rea',300,'2005-07-07',20000,444);
insert into employee values(104,'Anjali',400,'2006-08-08',25000,333);
insert into employee values(105,'Ajay',500,'2007-09-09',30000,111);
insert into employee values(106,'Altaf',600,'2008-10-10',35000,111);
insert into employee values(107,'Lalit',700,'2009-11-11',40000,555);
insert into employee values(108,'Aman',800,'2010-12-12',45000,222);
insert into employee values(109,'Bhuvan',900,'2011-01-01',50000,333);
insert into employee values(110,'Tammy',1000,'2012-02-02',55000,444);
```

```
insert into incentives values(101,'2021-05-20',1000);
insert into incentives values(103,'2022-04-21',1500);
insert into incentives values(105,'2021-09-19',2000);
insert into incentives values(107,'2022-06-18',2500);
```

```
insert into incentives values(109,'2021-04-17',3000);
```

```
insert into incentives values(110,'2022-10-16',3500);
```

```
insert into assigned values(101,10,'sde');
```

```
insert into assigned values(102,20,'salesperson');
```

```
insert into assigned values(103,30,'siteengineer');
```

```
insert into assigned values(104,40,'hrmanager');
```

```
insert into assigned values(105,50,'webdeveloper');
```

```
insert into assigned values(106,50,'sde');
```

```
insert into assigned values(107,60,'stockmanager');
```

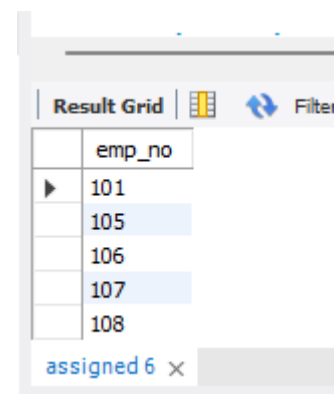
```
insert into assigned values(108,60,'salesperson');
```

```
insert into assigned values(109,70,'assthmanager');
```

```
insert into assigned values(110,70,'asst_siteengineer');
```

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

```
select a.emp_no from assigned a where ( select p.p_no from project p where p.p_loc in ('bengalure', 'hyderabad','mysuru') and p.p_no=a.p_no);
```

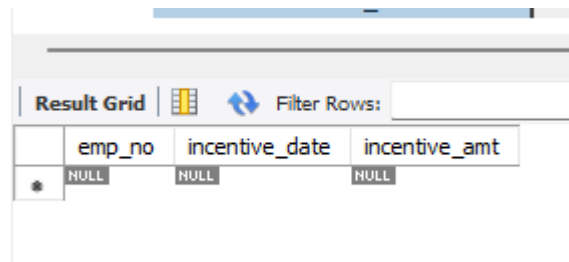


The screenshot shows a 'Result Grid' window with a table containing employee numbers. The table has one column labeled 'emp_no'. The rows contain the values 101, 105, 106, 107, and 108. The row with 105 is highlighted. At the bottom of the window, there is a status bar that says 'assigned 6 x'.

emp_no
101
105
106
107
108

2. Get Employee IDs of those employees who didn't receive incentives.

```
select * from incentives
where incentive_amt is null
```

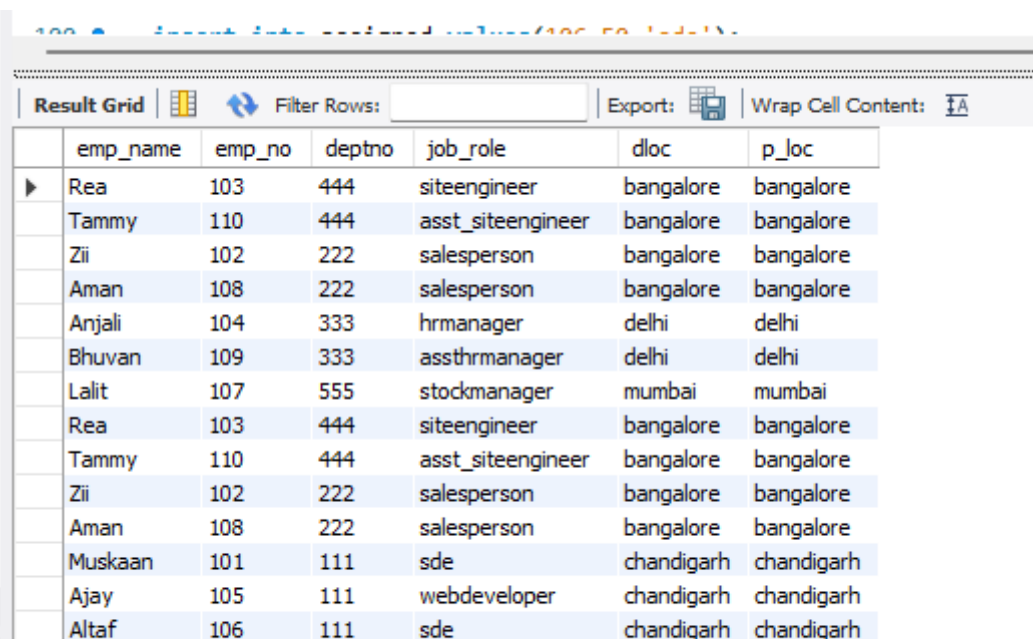


The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The grid contains one row with the following values:

	emp_no	incentive_date	incentive_amt
*	NULL	NULL	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.emp_name, e.emp_no, e.deptno, a.job_role, d.dloc, p.p_loc
from employee e, assigned a, dept d, project p
where e.emp_no=a.emp_no and e.deptno=d.deptno and d.dloc=p.p_loc
```



The screenshot shows a 'Result Grid' with a 'Filter Rows' button and an 'Export' button. The grid contains 15 rows of employee data:

	emp_name	emp_no	deptno	job_role	dloc	p_loc
▶	Rea	103	444	siteengineer	bangalore	bangalore
	Tammy	110	444	asst_siteengineer	bangalore	bangalore
	Zii	102	222	salesperson	bangalore	bangalore
	Aman	108	222	salesperson	bangalore	bangalore
	Anjali	104	333	hrmanager	delhi	delhi
	Bhuvan	109	333	assthrmanager	delhi	delhi
	Lalit	107	555	stockmanager	mumbai	mumbai
	Rea	103	444	siteengineer	bangalore	bangalore
	Tammy	110	444	asst_siteengineer	bangalore	bangalore
	Zii	102	222	salesperson	bangalore	bangalore
	Aman	108	222	salesperson	bangalore	bangalore
	Muskaan	101	111	sde	chandigarh	chandigarh
	Ajay	105	111	webdeveloper	chandigarh	chandigarh
	Altaf	106	111	sde	chandigarh	chandigarh