**VISHWAS G C**

**1BM21CS244**

create database 1bm21cs244\_emp\_id;

use 1bm21cs244\_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

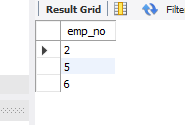
select \*from dept;

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);



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

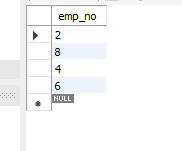
from employee e, dept d, assigned a, project p

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;



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;

