Sushanth Gowda – 1BM24CS302

Employee Database

Create Database:

create database emp;

use emp;

create table employee(empno int primary key, ename varchar(50), mgr_no int, hiredate date, sal decimal, deptno int);

create table dept(deptno int primary key, dname varchar(50), dloc varchar(50));

create table incentives(empno int, incentive_date date, incentive_amt decimal);

create table project(pno int primary key, ploc varchar(50), pname varchar(50));

create table assigned_to(empno int, pno int, job_role varchar(50));

alter table employee
add foreign key(deptno) references dept(deptno);

alter table incentives
add foreign key(empno) references employee(empno);

alter table assigned_to
add foreign key(empno) references employee(empno),
add foreign key(pno) references project(pno);

desc employee;
desc dept;

```sql
desc incentives;

desc project;

desc assigned_to;


insert into employee values

(1, "Ramesh", 100, "2012-12-02", 50000, 1),

(2, "John", 101, "2008-03-12", 70000, 2),

(3, "WIlliam", 102, "2002-07-31", 100000, 3),

(4, "Askeladd", 103, "2022-12-12", 90000, 4),

(5, "Jyothi", 104, "2015-01-29", 40000, 5),

(6, "Raju", 105, "2008-09-13", 25000, 6);


insert into dept values

(1,"CSE", "Bangalore"),

(2,"ECE", "Delhi"),

(3,"MECH", "Mumbai"),

(4,"SCIENCE","Hyderabad"),

(5,"ARTS","Punjab"),

(6,"COMMERCE", "Kashmir");


insert into incentives values

(1,"2014-03-31", 15000),

(2,"2010-05-21", 15000),

(3,"2004-12-11", 15000),

(4,"2024-03-22", 15000),

(5,"2016-11-19", 15000),

(6,"2014-08-16", 15000);
```

insert into project values

(1,"Bangalore","Alpha"),

(2,"Delhi","Beta"),

(3,"Mumbai","Charile"),

(4,"Hyderabad","Delta"),

(5,"Punjab","Epsilon"),

(6,"Kashmir","Gamma");

insert into assigned_to values

(1,1,"Project Manager"),

(2,2,"Analyst"),

(3,3,"HR executive"),

(4,4,"Sales executive"),

(5,5,"Support engineer"),

(6,6,"Developer");

Queries:

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

select e.empno

from employee e, project p, assigned_to a

where e.empno=a.empno and p.pno=a.pno and p.ploc in ("Bangalore","Hyderabad","Delhi");

empno
1
2
4

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

select empno

from employee e

where empno not in (select empno from incentives);

	empno
*	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.ename, e.empno, d.dname, a.job_role, d.dloc, p.ploc

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

where e.empno=a.empno

and p.pno=a.pno

and e.deptno=d.deptno

and p.ploc=d.dloc;

ename	empno	dname	job_role	dloc	ploc
Ramesh	1	CSE	Project Manager	Bangalore	Bangalore
John	2	ECE	Analyst	Delhi	Delhi
WIlliam	3	MECH	HR executive	Mumbai	Mumbai
Askeladd	4	SCIENCE	Sales executive	Hyderabad	Hyderabad
Jyothi	5	ARTS	Support engineer	Punjab	Punjab
Raju	6	COMMERCE	Developer	Kashmir	Kashmir