

```
CREATE DATABASE EMP;
```

```
USE EMP;
```

```
CREATE TABLE project(
```

```
    p_no INT,
```

```
    p_name VARCHAR(20),
```

```
    p_loc VARCHAR(20),
```

```
    PRIMARY KEY(p_no)
```

```
);
```

```
CREATE TABLE dept(
```

```
    dept_no INT,
```

```
    d_name VARCHAR(20),
```

```
    d_loc VARCHAR(20),
```

```
    PRIMARY KEY(dept_no)
```

```
);
```

```
CREATE TABLE employee(
```

```
    emp_no INT,
```

```
    e_name VARCHAR(20),
```

```
    mgr_no INT,
```

```
    hire_date DATE,
```

```
    sal INT,
```

```
    dept_no INT,
```

```
    PRIMARY KEY(emp_no),
```

```
    FOREIGN KEY(dept_no) REFERENCES dept(dept_no) ON DELETE CASCADE
```

```
);
```

```
CREATE TABLE incentives(
```

```
    emp_no INT,
```

```
incentive_date DATE,  
  
incentive_amount INT,  
  
PRIMARY KEY(emp_no,incentive_date),  
  
FOREIGN KEY(emp_no) REFERENCES employee(emp_no) ON DELETE CASCADE  
);
```

```
CREATE TABLE assigned_to(  
  
    emp_no INT,  
  
    p_no INT,  
  
    job_role VARCHAR(20),  
  
    PRIMARY KEY(emp_no,p_no),  
  
    FOREIGN KEY(emp_no) REFERENCES employee(emp_no) ON DELETE CASCADE,  
  
    FOREIGN KEY(p_no) REFERENCES project(p_no) ON DELETE CASCADE  
);
```

```
INSERT INTO dept VALUES  
  
("1","Railway","Bangalore"),  
  
("2","Airways","Hyderabad"),  
  
("3","Roadwys","Mysore"),  
  
("4","Waterways","Andaman"),  
  
("5","Drainage","Bombay"),  
  
("6","Pollution","Delhi");
```

```
INSERT INTO project VALUES  
  
("1","Lalbhagh","Bangalore"),  
  
("2","Sarojini nagar","Delhi"),  
  
("3","Tiruvananth","Chennai"),
```

```
("4","India gate","Bombay"),  
("5","Presidency","Mangalore"),  
("6","Church","Goa"),  
("7","Pink","Jaipur"),  
("8","Taj","Agra");
```

INSERT INTO employee VALUES

```
("10","HS","101",'2015-12-1',"25000","2"),  
("11","MM","102",'2013-1-12',"10000","3"),  
("12","SUHAS","12",'2013-10-20',"100000","6"),  
("13","VISHWAS","141",'2021-3-23',"2200","5"),  
("14","VINAYAK","12",'2019-9-15',"39000","1"),  
("15","UJWAL","12",'2011-8-3',"70000","4"),  
("16","SKANDA","007",'2021-5-6',"30000","1"),  
("17","KARANJI","1007",'2016-4-13',"19000","2");
```

INSERT INTO incentives VALUES

```
("13",'2021-11-5',"2000"),  
("11",'2019-1-21',"3000"),  
("14",'2020-10-15',"9000"),  
("15",'2015-11-15',"7000"),  
("15",'2021-11-5',"1000");
```

INSERT INTO assigned_to VALUES

```
("10","2","Architect"),  
("17","2","Civil Engineer"),
```

```

("11","3","Developer"),
("13","1","Android"),
("13","3","Website"),
("14","3","Financial"),
("15","6","Sales dept"),
("10","4","Team Head"),
("15","5","Testing"),
("14","1","Cloud"),
("11","7","Dev ops"),
("10","8","Data Science");

```

```
select * from project;
```

p_no	p_name	p_loc
1	Lalbhagh	Bangalore
2	Sarojini nagar	Delhi
3	Tiruvananth	Chennai
4	India gate	Bombay
5	Presidency	Mangalore
6	Church	Goa
7	Pink	Jaipur
8	Taj	Agra
NULL	NULL	NULL

```
select * from dept;
```

	dept_no	d_name	d_loc
▶	1	Railway	Bangalore
	2	Airways	Hyderabad
	3	Roadwys	Mysore
	4	Waterways	Andaman
	5	Drainage	Bombay
	6	Pollution	Delhi
*	NULL	NULL	NULL

```
select * from employee;
```

emp_no	e_name	mgr_no	hire_date	sal	dept_no
10	HS	101	2015-12-01	25000	2
11	MM	102	2013-01-12	10000	3
12	SUHAS	12	2013-10-20	100000	6
13	VISHWAS	141	2021-03-23	2200	5
14	VINAYAK	12	2019-09-15	39000	1
15	UJWAL	12	2011-08-03	70000	4
16	SKANDA	7	2021-05-06	30000	1
17	KARANJJI	1007	2016-04-13	19000	2
NULL	NULL	NULL	NULL	NULL	NULL

select * from incentives;

	emp_no	incentive_date	incentive_amount
▶	11	2019-01-21	3000
	13	2021-11-05	2000
	14	2020-10-15	9000
	15	2015-11-15	7000
	15	2021-11-05	1000
*	NULL	NULL	NULL

select * from assigned_to;

	emp_no	p_no	job_role
▶	10	2	Architect
	10	4	Team Head
	10	8	Data Science
	11	3	Developer
	11	7	Dev ops
	13	1	Android
	13	3	Website
	14	1	Cloud
	14	3	Financial

QUERY 1

SELECT DISTINCT e.emp_no,e.e_name

FROM employee e,assigned_to a,project p

WHERE e.emp_no=a.emp_no AND a.p_no=p.p_no AND p.p_loc
IN("Bangalore","Bombay","Mysore");

	emp_no	e_name
▶	13	VISHWAS
	14	VINAYAK
	10	HS

QUERY 2

SELECT DISTINCT e.emp_no

FROM employee e,incentives i

WHERE e.emp_no NOT IN(SELECT i.emp_no FROM incentives i);

	emp_no
▶	16
	10
	17
	12

QUERY 3

SELECT DISTINCT e.e_name,e.emp_no,e.dept_no,a.job_role,d.d_loc,p.p_loc

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

WHERE d.dept_no=e.dept_no AND e.emp_no=a.emp_no AND a.p_no=p.p_no AND p.p_loc=d.d_loc;

	e_name	emp_no	dept_no	job_role	d_loc	p_loc
▶	VINAYAK	14	1	Cloud	Bangalore	Bangalore