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CREATE DATABASE rabba;

USE rabba;

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	KARANJI	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