

## DDL:

```
create database sar_om
use sar_om
create table employ
(enum varchar(30),
fname varchar(30),
lname varchar(30),
sex varchar(30),
dnum varchar(30),
pnum varchar(30),
primary key(enum));
```

```
create table skill
(
pnum varchar(30),
enum varchar(30),
skill varchar(30),
primary key(enum));
```

```
create table birthdate
(
enum varchar(30),
dd int,
mm int,
yy int,
primary key(enum));
```

```
create table adress
(
enum varchar(30),
city varchar(30),
street varchar(30),
contact varchar(30),
primary key(enum));
```

```
create table project
(pnum varchar(30),
```

```
pname varchar(30),  
mgenum varchar(30),  
dnum varchar(30),  
tnum varchar(30),  
primary key(pnum));
```

```
create table team  
(  
tnum varchar(30),  
enum varchar(30),  
pnum varchar(30),  
dnum varchar(30)  
);
```

```
create table department  
(  
dnum varchar(30),  
dname varchar(30),  
mgenum varchar(30),  
pnum varchar(30),  
primary key(dnum)  
);
```

```
alter table employ add foreign key(dnum)references  
department(dnum);
```

```
alter table employ add foreign key(pnum)references  
project1(pnum);
```

```
alter table skill add foreign key(enum)references  
employ(enum);
```

```
alter table birthdate add foreign key(enum)references  
employ(enum);
```

```
alter table adress add foreign key(enum)references  
employ(enum);
```

```
alter table project1 add foreign key(mgenum)references  
employ(enum);
```

```
alter table project1 add foreign key(dnum)references
department(dnum);
alter table team add foreign key(pnum)references
project1(pnum);
alter table department add foreign key(mgenum)references
employ(enum);
```

## **DML:**

```
Insert into employ
values('E1','SURESH','SINHA','M','D1','P1');
```

```
Insert into employ values('E2','RAM','KUMAR','M','D1','P2');
```

```
Insert into employ values('E3','SAM','AMRIT','M','D3','P3');
```

```
Insert into employ values('E4','PAM','KRISH','M','D4','P4');
```

```
Insert into skill values('P1','E1','C++');
```

```
Insert into skill values('P2','E2','JAVA');
```

```
Insert into skill values('P3','E3','C');
```

```
Insert into skill values('P4','E4','PYTHON');
```

```
Insert into birthdate values('E1',28,02,96);
```

```
Insert into birthdate values('E2',28,02,97);
```

```
Insert into birthdate values('E3',26,03,98);
```

```
Insert into birthdate values('E4',26,04,99);
```

```
Insert into adress values('E1', 'SAH', 'L1', '9999999999');  
Insert into adress values('E2', 'BHA', 'L2', '8888888888');  
Insert into adress values('E3', 'KAN', 'L3', '7777777777');  
Insert into adress values('E4', 'VARA', 'L4', '6789567891');
```

```
Insert into project values('P1', 'PA', 'E1', 'd1', 't1');  
Insert into project values('P2', 'PB', 'E2', 'd2', 't2');  
Insert into project values('P3', 'PC', 'E3', 'd3', 't3');  
Insert into project values('P4', 'PD', 'E4', 'd4', 't4');
```

```
Insert into team values('t1', 'E1', 'P1', 'D1');  
Insert into team values('t2', 'E2', 'P2', 'D2');  
Insert into team values('t3', 'E3', 'P3', 'D3');  
Insert into team values('t4', 'E4', 'P4', 'D4');
```

```
Insert into department values('D1', 'ABC', 'E1', 'P1');  
Insert into department values('D2', 'DEF', 'E2', 'P2');  
Insert into department values('D3', 'GHI', 'E3', 'P3');  
Insert into department values('D4', 'JKL', 'E4', 'P4');
```

# QUERIES

## **Q1: DISPLAY THE BIRTH DATE OF EACH EMPLOYEE.**

Select dd,mm,yy from birthdate B, employ E

Where B.enum=E.enum;

### OUTPUT:

118 %

	dd	mm	yy
1	28	2	96
2	28	2	97
3	26	3	98
4	26	4	99

## **Q2: DISPLAY THE ADDRESS OF EACH EMPLOY.**

Select street, city, contact from adress A, employ E

Where A.enum=E.enum;

### OUTPUT:

118 %

	street	contact	city
1	L1	9999999999	SAH
2	L2	8888888888	BHA
3	L3	7777777777	KAN
4	L4	6789567891	VARA

## **Q3: DISPLAY THE CONTACT OF EACH EMPLOY.**

Select contact

from adress A, employ E Where A.enum=E.enum ;

**OUTPUT:**

Results		Messages
	contact	
1	9999999999	
2	8888888888	
3	7777777777	
4	6789567891	

**Q4: DISPLAY THE DETAIL OF EMPLOY HAVING SKILL 'C'.**

Select \* from employ E, birthdate B, adress A, skill S

Where B.enum=E.enum and A.enum=E.enum

and S.enum=E.enum and S.skill='C';

**OUTPUT:**

Results																		Messages
	enum	fname	lname	sex	dnum	pnum	enum	dd	mm	yy	enum	city	street	contact	pnum	enum	skill	
1	E3	SAM	AMRIT	M	D3	P3	E3	26	3	98	E3	KAN	L3	7777777777	P3	E3	C	

**Q5: DISPLAY THE MANAGER NAME FOR PROJECT NUMBER 'P2'.**

Select fname,lname from employ E, project P

Where P.mgenum=E.enum and P.pnum='P2';

**OUTPUT:**

Results		Messages
	fname	lname
1	RAM	KUMAR

**Q6: DISPLAY THE TEAM NUMBER OF EMPLOY HAVING CITY 'KAN'.**

Select T.tnum from team T, project P, employ E, adress A

Where T.tnum= P.tnum and E.pnum= P.pnum and A.enum= E.enum  
and A.city='KAN';

**OUTPUT:**

	tnum
1	t1
2	t2
3	t3
4	t4

**Q7: DISPLAY THE DEPARTMENT NAME MANAGE BY EMPLOY NUMBER 'E3'.**

Select dname from department D, employ E

Where d.mgenum=E.enum and E.enum='E3';

**OUTPUT:**

Results		Messages	
	dname		
1	GHI		

**Q8: DISPLAY THE CONTACT OF MALE EMPLOY.**

Select contact from adress A, employ E

Where A.enum=E.enum and E.sex='M';

**OUTPUT:**

Results		Messages	
	contact		
1	9999999999		
2	8888888888		
3	7777777777		
4	6789567891		

***END OF PROJECT.***

