```
-- Pragya
-- 500119396
CREATE DATABASE Imn;
USE Imn;
CREATE TABLE EMPLOYEE (
  Fname VARCHAR(15) NOT NULL,
  Minit CHAR.
  Lname VARCHAR(15) NOT NULL,
  Ssn CHAR(9) NOT NULL,
  Bdate DATE,
  Address VARCHAR(30),
  Sex CHAR,
  Salary DECIMAL(10,2),
  Super_ssn CHAR(9),
  Dno INT NOT NULL
);
INSERT INTO EMPLOYEE (Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super_ssn, Dno)
VALUES
('John', 'B', 'Smith', '123456789', '1965-01-09', '731 Fondren, Houston TX', 'M', 30000, '333445555',
5),
('Franklin', 'T', 'Wong', '333445555', '1965-12-08', '638 Voss, Houston TX', 'M', 40000, '888665555',
5),
('Alicia', 'J', 'Zelaya', '999887777', '1968-01-19', '3321 Castle, Spring TX', 'F', 25000, '987654321', 4),
('Jennifer', 'S', 'Wallace', '987654321', '1941-06-20', '291 Berry, Bellaire TX', 'F', 43000, '888665555',
4),
('Ramesh', 'K', 'Narayan', '666884444', '1962-09-15', '975 Fire Oak, Humble TX', 'M', 38000,
'333445555', 5),
('Joyce', 'A', 'English', '453453453', '1972-07-31', '5631 Rice, Houston TX', 'F', 25000, '333445555', 5),
('Ahmad', 'V', 'Jabbar', '987987987', '1969-03-29', '980 Dallas, Houston TX', 'M', 25000, '987654321',
4),
('James', 'E', 'Borg', '888665555', '1937-11-10', '450 Stone, Houston TX', 'M', 55000, NULL, 1);
```

```
CREATE TABLE DEPARTMENT (
  Dname VARCHAR(15) NOT NULL,
  Dnumber INT NOT NULL,
  Mgr_ssn CHAR(9) NOT NULL,
  Mgr_start_date DATE
);
INSERT INTO DEPARTMENT (Dname, Dnumber, Mgr_ssn, Mgr_start_date) VALUES
('Research', 5, '333445555', '1988-05-22'),
('Administration', 4, '987654321', '1995-01-01'),
('Headquarters', 1, '888665555', '1981-06-19');
CREATE TABLE PROJECT (
  Pname VARCHAR(15) NOT NULL,
  Pnumber INT NOT NULL,
  Plocation VARCHAR(15),
  Dnum INT NOT NULL
);
INSERT INTO PROJECT (Pname, Pnumber, Plocation, Dnum) VALUES
('ProductX', 1, 'Bellaire', 5),
('ProductY', 2, 'Sugarland', 5),
('ProductZ', 3, 'Houston', 5),
('Computerization', 10, 'Stafford', 4),
('Reorganization', 20, 'Houston', 1),
('Newbenefits', 30, 'Stafford', 4);
CREATE TABLE WORKS_ON (
  Essn CHAR(9) NOT NULL,
  Pno INT NOT NULL,
  Hours DECIMAL(3,1) NOT NULL
);
INSERT INTO WORKS_ON (Essn, Pno, Hours) VALUES
```

```
('123456789', 1, 32.5),
```

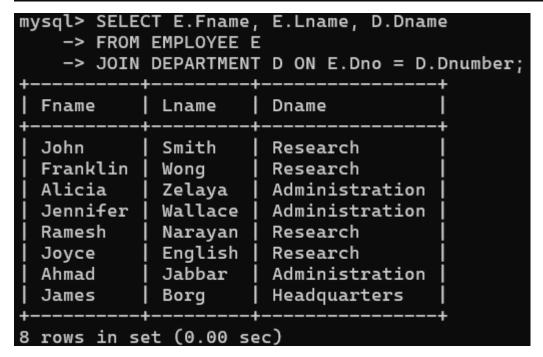
('123456789', 2, 7.5),

('666884444', 3, 40.0),

('453453453', 1, 20.0);

Fname	Minit	Lname	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno
 John	В	Smith	123456789	1965-01-09	731 Fondren, Houston TX	 M	+ 30000.00	333445555	5
Franklin	T	Wong	333445555	1965-12-08	638 Voss, Houston TX	M	40000.00	888665555	5
Alicia	J	Zelaya	999887777	1968-01-19	3321 Castle, Spring TX	F	25000.00	987654321	4
Jennifer	S	Wallace	987654321	1941-06-20	291 Berry, Bellaire TX	F	43000.00	888665555	4
Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble TX	M	38000.00	333445555	5
Joyce	Α	English	453453453	1972-07-31	5631 Rice, Houston TX	F	25000.00	333445555	5
Ahmad	V	Jabbar	987987987	1969-03-29	980 Dallas, Houston TX	M	25000.00	987654321	L
James	E	Borg	888665555	1937-11-10	450 Stone, Houston TX	M	55000.00	NULL	1

mysql> SELECT * FROM PROJECT;									
Pname	Pnumber	Plocation	Dnum						
ProductX ProductY ProductZ Computerization Reorganization	1 2 3 10 20 30	Bellaire Sugarland Houston Stafford Houston Stafford	5 5 5 6 4 1 4						
++ 6 rows in set (0.00 sec)									



```
mysql> SELECT E.Fname, E.Lname, P.Pname
    -> FROM WORKS_ON W
    -> JOIN EMPLOYEE E ON W.Essn = E.Ssn
    -> JOIN PROJECT P ON W.Pno = P.Pnumber;
 Fname
           Lname
                     Pname
 John
           Smith
                     ProductY
  John
           Smith
                     ProductX
  Ramesh
          Narayan
                     ProductZ
          English
                    ProductX
  Jovce
 rows in set (0.01 sec)
```

```
mysql> SELECT D.Dname, E.Fname, E.Lname, D.Mgr_start_date
    -> FROM DEPARTMENT D
    -> JOIN EMPLOYEE E ON D.Mgr_ssn = E.Ssn;
                                        Mgr_start_date
                   Fname
                              Lname
  Research
                   Franklin
                              Wong
                                         1988-05-22
 Administration
                   Jennifer
                              Wallace
                                         1995-01-01
 Headquarters
                   James
                              Borg
                                         1981-06-19
3 rows in set (0.00 sec)
```