USE INSTITUTION

```
CREATE TABLE Employee (
      SSN INT PRIMARY KEY,
      FName VARCHAR (30) NOT NULL,
      LName VARCHAR (30) NOT NULL,
      Gender VARCHAR (20),
      Birthdate DATE,
      DNum INT,
      SuperID INT,
      FOREIGN KEY (SuperID) REFERENCES Employee (SSN)
      );
INSERT INTO Employee (SSN, FName, LName, Gender, Birthdate, DNum, SuperID)
VALUES ('111223333', 'David', 'Lee', 'M', '1988-11-30', 1, '0');
INSERT INTO Employee (SSN, FName, LName, Gender, Birthdate, DNum, SuperID)
VALUES
(111223333, 'David', 'Lee', 'M', '1988-11-30', 1, NULL),
(356895432, 'Jane', 'Brown', 'F', '1980-01-01', 1, NULL),
(874249645, 'Tom', 'Green', 'M', '1975-03-12', 1, NULL);
INSERT INTO Employee (SSN, FName, LName, Gender, Birthdate, DNum, SuperID)
VALUES
(22222222, 'Sara', 'White', 'F', '1993-02-10', 1, 356895432),
(111111111, 'Ali', 'Khan', 'M', '1989-08-21', 1, 111223333),
(55555555, 'Muna', 'Ramirez', 'F', '1990-12-03', 1, 874249645);
SELECT * FROM Employee
```

```
CREATE TABLE Department (
      DNum INT PRIMARY KEY,
      DName VARCHAR(50) NOT NULL,
      ManagerSSN INT,
      HIRE DATE DATE,
      FOREIGN KEY (ManagerSSN) REFERENCES Employee (SSN),
);
INSERT INTO Department (DNum, DName, ManagerSSN, HIRE_DATE)
VALUES
(1, 'Marketing', 111223333, '2010-06-01'),
(2, 'HR', 111223333, '2012-03-15'),
(3, 'IT', 111223333, '2015-08-22');
SELECT * FROM Department
CREATE TABLE Locations (
      DNum INT,
      LocationName VARCHAR(50),
      primary key (DNum, LocationName),
      FOREIGN KEY (DNum) REFERENCES Department (DNum)
);
INSERT INTO Locations (DNum, LocationName)
VALUES
(1, 'Muscat'),
(2, 'Salalah'),
(3, 'Sur');
SELECT * FROM Locations
DELETE FROM Locations
```

DNum LocationName 1 1 Muscat 2 3 Sur

WHERE LocationName = 'Salalah'

```
CREATE TABLE Dependant (
      DName VARCHAR (20),
      Gender VARCHAR(20),
      Birthdate Date,
      SSN INT,
      FOREIGN KEY (SSN) REFERENCES Employee (SSN),
      PRIMARY KEY (DName, SSN)
);
INSERT INTO Dependant (DName, Gender, Birthdate, SSN)
VALUES
('Alya', 'F', '2015-05-10', 222222222),
('Fatma', 'F', '2012-11-23', 111111111),
('Ahmed', 'M', '2018-07-14', 555555555);
SELECT * FROM Dependant
CREATE TABLE Project(
      PNum INT PRIMARY KEY,
      PName VARCHAR(20) NOT NULL,
      City VARCHAR (20),
      LocationS VARCHAR (30),
      DNum INT,
      FOREIGN KEY (DNum) REFERENCES Department (DNum),
);
INSERT INTO Project (PNum, PName, City, LocationS, DNum)
VALUES
(101, 'Alpha', 'Muscat', 'Muscat Office', 1),
(102, 'Beta', 'Salalah', 'Salalah Branch', 2),
(103, 'Gamma', 'Sur', 'Sur Site', 3);
SELECT * FROM Project
UPDATE Project
SET City = 'Seeb'
WHERE PNum = 101;
```

	PNum	PName	City	LocationS	DNum
1	101	Alpha	Seeb	Muscat Office	1
2	102	Beta	Salalah	Salalah Branch	2
3	103	Gamma	Sur	Sur Site	3