

```
CREATE TABLE PROFESSORS
(
    SSN INT,
    FIRST_NAME VARCHAR(30),
    LAST_NAME VARCHAR(30),
    PRIMARY KEY(SSN)
);
```

```
CREATE TABLE STUDENTS
(
    SSN INT,
    FIRST_NAME VARCHAR(30),
    LAST_NAME VARCHAR(30),
    PRIMARY KEY(SSN)
);
```

```
CREATE TABLE GTA
(
    SSN INT,
    FIRST_NAME VARCHAR(30),
    LAST_NAME VARCHAR(30),
    SALARY FLOAT(9),
    PRIMARY KEY(SSN),
    FOREIGN KEY(SSN) REFERENCES STUDENTS(SSN) ON DELETE CASCADE
);
```

```
CREATE TABLE TEAM
(
    TEAM_ID INT,
    PRIMARY KEY(Team_ID)
);
```

```
CREATE TABLE CLASS
(
    DEPARTMENT_NAME VARCHAR(20),
    COURSE_NUMBER INT,
    PRIMARY KEY(DEPARTMENT_NAME,COURSE_NUMBER)
);
```

```
CREATE TABLE SECTION_HAS
(
    SECTION_NUMBER INT,
    DEPARTMENT_NAME VARCHAR(20),
    COURSE_NUMBER INT,
    PRIMARY KEY(DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER),
    FOREIGN KEY(DEPARTMENT_NAME,COURSE_NUMBER) REFERENCES CLASS(DEPARTMENT_NAME,COURSE_NUMBER) ON DELETE CASCADE
);
```

```
CREATE TABLE TEACH
(
    SSN INT,
    FIRST_NAME VARCHAR(30),
    LAST_NAME VARCHAR(30),
    DEPARTMENT_NAME VARCHAR(20),
    COURSE_NUMBER INT,
    PRIMARY KEY(SSN,DEPARTMENT_NAME,COURSE_NUMBER),
    FOREIGN KEY(SSN) REFERENCES PROFESSORS(SSN),
    FOREIGN KEY(DEPARTMENT_NAME,COURSE_NUMBER) REFERENCES CLASS(DEPARTMENT_NAME,COURSE_NUMBER)
);
```

```
CREATE TABLE TEAM1
(
    SSN INT,
    FIRST_NAME VARCHAR(30),
    LAST_NAME VARCHAR(30),
    TEAM_ID INT,
    PRIMARY KEY(SSN,TEAM_ID),
    FOREIGN KEY(SSN) REFERENCES PROFESSORS(SSN),
    FOREIGN KEY(TEAM_ID) REFERENCES TEAM(TEAM_ID)
);
```

CREATE TABLE TEAM2

```
(  
    SSN INT,  
    FIRST_NAME VARCHAR(30),  
    LAST_NAME VARCHAR(30),  
    TEAM_ID INT,  
    PRIMARY KEY(SSN,TEAM_ID),  
    FOREIGN KEY(SSN) REFERENCES GTA(SSN),  
    FOREIGN KEY(Team_ID) REFERENCES TEAM(Team_ID)  
);
```

CREATE TABLE ASSIGNED

```
(  
    TEAM_ID INT NOT NULL,  
    DEPARTMENT_NAME VARCHAR(20),  
    COURSE_NUMBER INT,  
    SECTION_NUMBER INT,  
    RATING FLOAT(4),  
    PRIMARY KEY(Team_ID,DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER),  
    FOREIGN KEY(Team_ID) REFERENCES TEAM(Team_ID),  
    FOREIGN KEY(DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER) REFERENCES SECTION_HAS(DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER)  
);
```

CREATE TABLE ENROLL

```
(  
    SSN INT,  
    FIRST_NAME VARCHAR(30),  
    LAST_NAME VARCHAR(30),  
    DEPARTMENT_NAME VARCHAR(20),  
    COURSE_NUMBER INT,  
    SECTION_NUMBER INT,  
    GRADE VARCHAR(3),  
    PRIMARY KEY(SSN,DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER),  
    FOREIGN KEY(SSN) REFERENCES STUDENTS(SSN),  
    FOREIGN KEY(DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER) REFERENCES SECTION_HAS(DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER)  
);
```

```
CREATE TABLE PREREQUISITE
(
    DEPARTMENT_NAME VARCHAR(20),
    COURSE_NUMBER INT,
    PREREQ_DEPT_NAME VARCHAR(20),
    PREREQ_COURSE_NO INT,
    PRIMARY KEY(DEPARTMENT_NAME,COURSE_NUMBER),
    FOREIGN KEY(DEPARTMENT_NAME,COURSE_NUMBER) REFERENCES CLASS(DEPARTMENT_NAME,COURSE_NUMBER),
    FOREIGN KEY(PREREQ_DEPT_NAME,PREREQ_COURSE_NO) REFERENCES CLASS(DEPARTMENT_NAME,COURSE_NUMBER)
);
```

```
INSERT INTO PROFESSORS(SSN,FIRST_NAME,LAST_NAME) VALUES (123457,'ALEX', 'BRODSKY');
INSERT INTO PROFESSORS(SSN,FIRST_NAME,LAST_NAME) VALUES (123454, 'KENNETH', 'SMITH');
INSERT INTO PROFESSORS(SSN,FIRST_NAME,LAST_NAME) VALUES (123456, 'KEVIN', 'ANDREA');
```

```
INSERT INTO STUDENTS(SSN,FIRST_NAME,LAST_NAME) VALUES (654321,'MITHILAESH', 'JAYAKUMAR');
INSERT INTO STUDENTS(SSN,FIRST_NAME,LAST_NAME) VALUES (654320, 'SARADHA', 'JAYAKUMAR');
INSERT INTO STUDENTS(SSN,FIRST_NAME,LAST_NAME) VALUES (654329, 'SREELALITHA', 'BUDIGI');
```

```
INSERT INTO GTA(SSN,FIRST_NAME,LAST_NAME,SALARY) VALUES (654301,'YAMINI', 'PALNATI',7500);
INSERT INTO GTA(SSN,FIRST_NAME,LAST_NAME,SALARY) VALUES (654322, 'TEJASRI', 'DONTAM', 8000);
INSERT INTO GTA(SSN,FIRST_NAME,LAST_NAME,SALARY) VALUES (654300, 'SAFWAT','KHAN', 4000);
```

```
INSERT INTO TEAM(Team_ID) VALUES (1);
INSERT INTO TEAM(Team_ID) VALUES (2);
INSERT INTO TEAM(Team_ID) VALUES (3);
INSERT INTO TEAM(Team_ID) VALUES (4);
```

```
INSERT INTO CLASS(DEPARTMENT_NAME,COURSE_NUMBER) VALUES ('CS', 310);
INSERT INTO CLASS(DEPARTMENT_NAME,COURSE_NUMBER) VALUES ('CS', 330);
INSERT INTO CLASS(DEPARTMENT_NAME,COURSE_NUMBER) VALUES ('CS', 530);
INSERT INTO CLASS(DEPARTMENT_NAME,COURSE_NUMBER) VALUES ('CS', 550);
```

```
INSERT INTO SECTION_HAS(DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER) VALUES ('CS', 310, 001);
INSERT INTO SECTION_HAS(DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER) VALUES ('CS', 330, 001);
INSERT INTO SECTION_HAS(DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER) VALUES ('CS', 550, 001);
INSERT INTO SECTION_HAS(DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER) VALUES ('CS', 550, 002);
```

```
INSERT INTO TEAM1(SSN,FIRST_NAME,LAST_NAME,TEAM_ID) VALUES (123457,'KEVIN', 'ANDREA',2);
```

```
INSERT INTO TEAM1(SSN,FIRST_NAME,LAST_NAME,TEAM_ID) VALUES (123454,'KENNETH', 'SMITH',3);
```

```
INSERT INTO TEAM1(SSN,FIRST_NAME,LAST_NAME,TEAM_ID) VALUES (123456,'ALEX', 'BRODSKY',4);
```

```
INSERT INTO TEAM2(SSN,FIRST_NAME,LAST_NAME,TEAM_ID) VALUES (654321, 'YAMINI', 'PALNATI',1);
```

```
INSERT INTO TEAM2(SSN,FIRST_NAME,LAST_NAME,TEAM_ID) VALUES (354321, 'TEJASRI', 'DONTAM',2)
```

```
INSERT INTO TEAM2(SSN,FIRST_NAME,LAST_NAME,TEAM_ID) VALUES (754321, 'SAFWAT','KHAN',3);
```

```
INSERT INTO TEACHES(SSN,FIRST_NAME,LAST_NAME,DEPARTMENT_NAME,COURSE_NUMBER) VALUES (123457,'KEVIN', 'ANDREA','CS',530);
```

```
INSERT INTO TEACHES(SSN,FIRST_NAME,LAST_NAME,DEPARTMENT_NAME,COURSE_NUMBER) VALUES (123454,'KENNETH', 'SMITH','CS',550);
```

```
INSERT INTO TEACHES(SSN,FIRST_NAME,LAST_NAME,DEPARTMENT_NAME,COURSE_NUMBER) VALUES (123456,'ALEX', 'BRODSKY','CS',330);
```

```
INSERT INTO ASSIGNED(Team_ID, DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER,RATING) VALUES (1,'CS',310,001,4);
```

```
INSERT INTO ASSIGNED(Team_ID, DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER,RATING) VALUES (2,'CS',550,002,5);
```

```
INSERT INTO ASSIGNED(Team_ID, DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER,RATING) VALUES (3,'CS',550,001,4);
```

```
INSERT INTO ASSIGNED(Team_ID, DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER,RATING) VALUES (4,'CS',330,001,5);
```

```
INSERT INTO ENROLL(SSN,FIRST_NAME,LAST_NAME, DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER,GRADE) VALUES (654321,'MITHILAESH',  
'JAYAKUMAR','CS',550,001,'A');
```

```
INSERT INTO ENROLL(SSN, FIRST_NAME,LAST_NAME, DEPARTMENT_NAME,COURSE_NUMBER,SECTION_NUMBER,GRADE) VALUES  
(354321,'SREELALITHA','BUDIGI','ISA',562,001,'A');
```

```
INSERT INTO PRE_REQ(DEPARTMENT_NAME,COURSE_NUMBER,PREREQ_DEPT_NAME,PREREQ_COURSE_NO) VALUES ('CS',550,'CS',310);
```

```
INSERT INTO PRE_REQ(DEPARTMENT_NAME,COURSE_NUMBER,PREREQ_DEPT_NAME,PREREQ_COURSE_NO) VALUES ('CS',530,'CS',330);
```