```sql
CREATE TABLE department(
        dept_name varchar(255) ,
        building varchar(255),
        budget INT(255),
        PRIMARY KEY(dept_name)

);
CREATE TABLE student(
        ID INT(255) UNSIGNED NOT NULL  ,
        name varchar(255) NOT NULL,
        dept_name varchar(255),
        tot_cred SMALLINT(255) UNSIGNED NOT NULL,
        PRIMARY KEY(ID),
        FOREIGN KEY(dept_name) REFERENCES department(dept_name)

);
CREATE TABLE instructor(
        ID INT(255) UNSIGNED NOT NULL ,
        name varchar(255) NOT NULL,
        dept_name varchar(255) ,
        salary INT(255) NOT NULL,
        PRIMARY KEY(ID),
        FOREIGN KEY(dept_name) REFERENCES department(dept_name)
);
CREATE TABLE advisor(
        s_id INT(255) UNSIGNED NOT NULL,
        i_id INT(255) UNSIGNED NOT NULL,
        PRIMARY KEY(s_id),
        FOREIGN KEY(s_id) REFERENCES student(ID),
        FOREIGN KEY(i_id) REFERENCES instructor(ID)
);
CREATE TABLE course(
        course_id varchar(255) NOT NULL ,
        title varchar(255),
        dept_name varchar(255),
        credits SMALLINT(255) UNSIGNED,
        PRIMARY KEY(course_id)
);
CREATE TABLE classroom(
        building varchar(255)  ,
        room_no int(255) UNSIGNED NOT NULL,
        capacity int(255) UNSIGNED NOT NULL,
        PRIMARY KEY(building,room_no)
);
CREATE TABLE course(
        course_id varchar(255) NOT NULL,
        title varchar(255),
        dept_name varchar(255) ,
        credits SMALLINT(255) UNSIGNED NOT NULL,
        PRIMARY KEY(course_id),
        FOREIGN KEY(dept_name) REFERENCES department(dept_name)

);
CREATE TABLE section(
        course_id varchar(255) NOT NULL,
        sec_id INT(255) UNSIGNED NOT NULL,
        semester varchar(255) NOT NULL ,
        year SMALLINT UNSIGNED NOT NULL ,
        building varchar(255),
        room_no INT(255) UNSIGNED NOT NULL ,
        time_slot_id varchar(255) NOT NULL ,
        PRIMARY KEY(course_id,sec_id,semester,year),
        FOREIGN KEY(course_id) REFERENCES course(course_id),
        FOREIGN KEY(building) REFERENCES classroom(building),
        FOREIGN KEY(room_no) REFERENCES classroom(room_no),
        FOREIGN KEY(time_slot_id) REFERENCES time_slot(time_slot_id)

);
CREATE TABLE time_slot(
        time_slot_id varchar(255)  NOT NULL ,
        day varchar(255)  NOt NULL,
        start_hour int(255) UNSIGNED NOt NULL,
        start_min int(255) UNSIGNED NOt NULL,
        end_hour int(255) UNSIGNED NOt NULL,
        end_min int(255) UNSIGNED NOt NULL,
        PRIMARY KEY(time_slot_id,day,start_hour,start_min)
);
CREATE TABLE teaches(
        ID INT(255) UNSIGNED NOT NULL ,
        course_id varchar(255)  NOT NULL,
        sec_id INT(255) UNSIGNED NOT NULL,
        semester varchar(255)  NOT NULL ,
        year SMALLINT UNSIGNED NOT NULL ,
        PRIMARY KEY(ID,course_id,sec_id,semester,year),
        FOREIGN KEY(course_id) REFERENCES section(course_id),
        FOREIGN KEY(sec_id) REFERENCES section(sec_id),
```

```sql
        FOREIGN KEY(semester) REFERENCES section(semester),
        FOREIGN KEY(year) REFERENCES section(year),
        FOREIGN KEY(ID) REFERENCES instructor(ID)

);
CREATE TABLE takes(
        ID INT(255) UNSIGNED NOT NULL ,
        course_id varchar(255) NOT NULL,
        sec_id INT(255) UNSIGNED NOT NULL,
        semester varchar(255) NOT NULL ,
        year SMALLINT UNSIGNED NOT NULL ,
        grade varchar(255) NOT NULL,
        PRIMARY KEY(ID,course_id,sec_id,semester,year),
        FOREIGN KEY(course_id) REFERENCES section(course_id),
        FOREIGN KEY(sec_id) REFERENCES section(sec_id),
        FOREIGN KEY(semester) REFERENCES section(semester),
        FOREIGN KEY(year) REFERENCES section(year)
);
CREATE TABLE prereq(
        course_id varchar(255)  NOT NULL,
        prereq_id varchar(255)  NOT NULL,
        PRIMARY KEY(course_id,prereq_id),
        FOREIGN KEY(course_id) REFERENCES course(course_id),
        FOREIGN KEY(prereq_id) REFERENCES course(course_id)

);
```