```sql
create schema if not exists attendance;
use attendance;
create table student(
     student_id varchar(50) primary key,
     student_name varchar(50) not null,
     student_password varchar(64) not null #Using sha-256 encrypt the
          password, 65 characters
);

create table course(
     course_id int primary key auto_increment, #For future easier reference
     course_department varchar(10) not null,
     course_number varchar(10) not null,
     course_section varchar(10) not null,
     course_name varchar(50) not null,
     unique(course_department, course_number, course_section)
);

create table teacher(
     teacher_id varchar(50) primary key,
     teacher_name varchar(50) not null,
     teacher_password varchar(64) not null
);

create table classroom(
     cr_id int primary key auto_increment,
     cr_name varchar(50) not null,
     cr_file varchar(200)
);

#TeacherCourse
#• tc id int
#• teacher id string
#• course id int
#• cr id int
#• time string # the format for time is something like
#[{'weekday' : 'M', 'start time' : '15 : 55', 'end time' : '17 : 20'}, . . .]
     • semester string
create table teacher_course(
     tc_id int primary key auto_increment,
     teacher_id varchar(50) not null,
     course_id int not null,
     cr_id int not null,
     col_time varchar(500) not null,
     semester varchar(50) not null,
     foreign key(teacher_id) references teacher(teacher_id),
     foreign key(course_id) references course(course_id),
     foreign key(cr_id) references classroom(cr_id),
     unique(teacher_id, course_id, cr_id)
);

#StudentCourse
#• sc id int
#• student id string • course id int
create table student_course(
     sc_id int primary key auto_increment,
     student_id varchar(50) not null,
     tc_id int not null,
     foreign key(student_id) references student(student_id),
     foreign key(tc_id) references teacher_course(tc_id),
```

```sql
        unique(student_id, tc_id)
);

#Record
#• record id int
#• tc id int
#• student id string
create table record(
    record_id int primary key auto_increment,
    tc_id int not null,
    student_id varchar(50) not null,
    date_time varchar(50) not null,
    foreign key(tc_id) references teacher_course(tc_id),
    foreign key(student_id) references student(student_id)
);
```