|  |  |
| --- | --- |
| Student number | 213166392 |
| Sur name | Jae |
| Given name | Sangheon |

-- ===================================================================

-- EECS3421 Project1\_B

-- Sangheon Jae

-- 213166392

-- -------------------------------------------------------------------

-- Schema definition

create table department (

dept\_name varchar(100) not null,

building varchar(50) not null,

budget int,

constraint department\_pk

primary key (dept\_name)

);

create table instructor (

ID varchar(10) not null,

name varchar(50) not null,

salary int,

dept\_name varchar(100) not null,

constraint instructor\_pk

primary key (ID),

constraint instructor\_fk\_department

foreign key (dept\_name) references department

);

create table teaches (

ID varchar(10) not null,

sec\_id char(1) not null,

constraint teaches\_pk

primary key (ID, sec\_id),

constraint teaches\_fk\_instructor

foreign key (ID) references instructor,

constraint teaches\_fk\_section

foreign key (sec\_id) references section

);

create table student (

ID int(9) not null,

name varchar(50) not null,

tot\_cred tinyint,

dept\_name varchar(100) not null,

advising varchar(10) not null,

constraint student\_pk

primary key (ID),

constraint student\_fk\_department

foreign key (dept\_name) references department,

constraint student\_fk\_instructor

foreign key (advising) references instructor

);

create table takes (

ID int(9) not null,

sec\_id char(1) not null,

grade varchar(3),

constraint takes\_pk

primary key (ID, sec\_id),

constraint takes\_fk\_student

foreign key (ID) references student,

constraint takes\_fk\_section

foreign key (sec\_id) references section

);

create table section (

course\_id varchar(10) not null,

sec\_id char(1) not null,

semester char(2) not null,

year int(2) not null,

building varchar(5) not null,

room\_number varchar(4) not null,

constraint section\_pk

primary key (course\_id, sec\_id, semester, year),

constraint section\_fk\_course

foreign key (course\_id) references course,

constraint section\_fk\_classroom

foreign key (building, room\_number) references classroom

);

create table course (

course\_id varchar(10) not null,

title varchar(50) not null,

credits int(1) not null,

dept\_name varchar(100) not null,

constraint course\_pk

primary key (course\_id),

constraint course\_fk\_department

foreign key (dept\_name) references department

);

create table prereq (

course\_id varchar(10) not null,

prereq\_id varchar(10) not null,

constraint prereq\_pk

primary key (course\_id, prereq\_id),

constraint prereq\_fk\_course\_course\_id

foreign key (course\_id) references course,

constraint prereq\_fk\_course\_prereq\_id

foreign key (prereq\_id) references course

);

create table time\_slot (

time\_slot\_id varchar(10) not null,

day varchar(7) not null,

start\_time char(5) not null,

end\_time char(5) not null,

constraint time\_slot\_pk

primary key (time\_slot\_id)

);

create table sec\_time\_slot (

sec\_id char(1) not null,

time\_slot\_id varchar(10) not null,

constraint sec\_time\_slot\_pk

primary key (sec\_id, time\_slot\_id),

constraint sec\_time\_slot\_fk\_section

foreign key (sec\_id) references section,

constraint sec\_time\_slot\_fk\_time\_slot

foreign key (time\_slot\_id) references time\_slot

);

create table classroom (

building varchar(5) not null,

room\_number varchar(4) not null,

capacity smallint not null,

constraint classroom\_pk

primary key (building, room\_number)

);

