create table School\_T(

school\_title char(5) not null,

school\_name varchar(50) not null,

constraint school\_PK primary key (school\_title)

);

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

create table Department\_T(

dept\_id char(6) not null,

school\_title char(5) not null,

dept\_name varchar(50) not null,

constraint Department\_PK primary key (dept\_id),

constraint Department\_FK foreign key (school\_title) references school\_t (school\_title)

);

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

create table Course\_T(

course\_id varchar(10) not null,

dept\_id char(6) not null,

course\_name char(50) not null,

credit\_hour int(1) not null,

number\_of\_section int(2) ,

room\_id varchar(10),

prerequisite varchar(10),

constraint Course\_PK primary key (course\_id,dept\_id),

constraint Course\_FK1 foreign key (dept\_id) references department\_t (dept\_id)

);

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

create table Course\_prerequisite\_T(

course\_id varchar(10) not null,

prerequisite varchar(10) not null,

constraint Course\_prerequisite\_PK primary key (course\_id,prerequisite),

constraint Course\_prerequisite\_FK foreign key (course\_id) references course\_t (course\_id)

);

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

create table Faculty\_T(

course\_id varchar(10) ,

faculty\_id char(5) not null,

faculty\_name varchar(50)not null,

constraint Faculty\_PK primary key (faculty\_id),

constraint Faculty\_FK foreign key (course\_id) references course\_t (course\_id)

);

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

create table section\_t(  
    capacity int(2),  
    block\_status boolean,  
    dept\_id CHAR(6),  
    course\_id varchar(10) ,  
    faculty\_id char(5) ,  
    section\_no int(2) not null,  
    session\_name varchar(10) not null,  
    syear year not null,  
    room\_id varchar(10),  
    enroll\_capacity int(2),  
    start\_time time,  
    end\_time time,  
    days char(2),  
    constraint Section\_PK primary key (section\_no,session\_name,syear,course\_id),  
    constraint Section\_FK1 foreign key (course\_id) references course\_t (course\_id),  
    constraint Section\_FK2 foreign key (faculty\_id) references faculty\_t (faculty\_id),  
    CONSTRAINT Section\_FK3 foreign key (dept\_id) REFERENCES department\_t(dept\_id),  
    CONSTRAINT Section\_FK4 FOREIGN KEY (room\_id) REFERENCES classroom\_t(room\_id)  
);

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

create table Classroom\_T(

section\_no int(2) ,

room\_id varchar(10) not null,

room\_capacity int(2),

constraint Classroom\_PK primary key (room\_id),

constraint Classroom\_FK foreign key (section\_no) references section\_t (section\_no)

);

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

ALTER TABLE course\_t

ADD CONSTRAINT course\_fk

FOREIGN KEY (room\_id) REFERENCES classroom\_t(room\_id);

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ALTER TABLE course\_t

ADD CONSTRAINT course\_fk3

FOREIGN KEY (prerequisite) REFERENCES course\_t(course\_id);

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

ALTER TABLE section\_t

ADD CONSTRAINT section\_fk3

FOREIGN KEY (room\_id) REFERENCES classroom\_t(room\_id);

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