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use master
go
create database [Mainul Islam Rahat]
go
use [Mainul Islam Rahat]
create table department
(
    dept_name varchar(10),
    building char(5),
    budget bigint,
    constraint dn_pk primary key (dept_name)
)
go
create table instructor
(
    ID tinyint,
    name char(20),
    dept_name varchar(10),
    salary int,
    primary key (ID),
    constraint dn_fk foreign key (dept_name) references department (dept_name)
)
go
create table student
(
    ID tinyint constraint dn_pk_id primary key (ID),
    name char(20),
    dept_name varchar(10),
    tot_cred tinyint,
    foreign key (dept_name) references department (dept_name)
)
go
create table advisor
(
    s_id tinyint primary key constraint dn_fk_s foreign key (s_id) references student
(ID),
    i_id tinyint foreign key references instructor,
)
go
create table course
(
    course_id varchar(10) primary key (course_id),
    title char(50),
    dept_name varchar(10) foreign key (dept_name) references department (dept_name),
    credits tinyint
)
go
create table prereq
(
    course_id varchar(10) foreign key references course,
    prereq_id varchar(10) foreign key references course,
    constraint c_pk primary key (course_id, prereq_id)
)
go
create table time_slot
(
    time_slot_id smallint,
    day char(10),

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        start_time varchar(10),
        end_time varchar(10),
        constraint t_pk primary key (time_slot_id, day, start_time)
    )
go
create table classroom
(
    building char(5),
    room_number tinyint,
    capacity tinyint,
    primary key(building, room_number)
)
go
create table section
(
    course_id varchar(10),
    sec_id varchar(10),
    semester varchar(15),
    year tinyint,
    building char(5),
    room_number tinyint,
    time_slot_id smallint,
    day char(10),
    start_time varchar(10),
    primary key (course_id, sec_id, semester, year),
    foreign key (building, room_number) references classroom,
    foreign key (time_slot_id, day, start_time) references time_slot(time_slot_id,
day, start_time)
)
go
create table teaches
(
    ID tinyint foreign key references Instructor,
    course_id varchar(10),
    sec_id varchar(10),
    semester varchar(15),
    year tinyint,
    primary key (course_id, sec_id, semester, year),
    foreign key (course_id, sec_id, semester, year) references section
)
go
create table takes
(
    ID tinyint foreign key references student,
    course_id varchar(10),
    sec_id varchar(10),
    semester varchar(15),
    year tinyint,
    grade varchar(12),
    constraint ta_pk primary key (ID, course_id, sec_id, semester, year),
    constraint ta_fk foreign key (course_id, sec_id, semester, year) references
section
)

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