create database SchoolDB

on

primary

(

name = SchoolDB\_data,

filename = 'D:\DATA\SchoolDB\_data.mdf',

size = 10MB,

filegrowth = 2MB

)

log on

(

name = SchoolDB\_log,

filename = 'D:\DATA\SchoolDB\_log.mdf',

size = 10MB,

filegrowth = 2MB

)

go

use SchoolDB

create table course

(

cno char(6) not null,

cname nvarchar(50) not null,

cpno char(6) foreign key references course (cno),

ccredit smallint not null,

primary key (cno)

)

go

use SchoolDB

create table teacher

(

tno char(8) not null,

tname nvarchar(8) not null,

tsex nchar(1) not null check (tsex = '男' or tsex = '女'),

tage int not null check (tage >= 24 and tage <= 60),

teb nvarchar(10) not null check (teb = '学士' or teb = '硕士' or teb = '博士'),

tpt nvarchar(10) not null check (tpt = '助教' or tpt = '讲师' or tpt = '副教授' or tpt = '教授'),

cno1 char(6) foreign key references course (cno),

cno2 char(6) foreign key references course (cno),

cno3 char(6) foreign key references course (cno),

password varchar(16) default '123456',

primary key (tno)

)

go

use SchoolDB

create table department

(

dno char(3) not null,

dname varchar(30) not null,

dmanager char(8) foreign key references teacher (tno),

primary key (dno)

)

go

use SchoolDB

create table student

(

sno char(9) not null,

sname nvarchar(8) not null,

ssex nchar(1) not null check (ssex = '男' or ssex = '女'),

sage int not null check (sage >= 14 and sage <= 24),

sdept char(3) not null foreign key references department (dno),

password varchar(16) default '123456',

primary key (sno)

)

go

use SchoolDB

create table sct

(

sno char(9) not null foreign key references student (sno),

cno char(6) not null foreign key references course (cno),

tno char(8) not null foreign key references teacher (tno),

grade int,

primary key (sno, cno, tno)

)

go

use SchoolDB

create table management

(

mno char(10) not null,

student\_search int not null check (student\_search = 0 or student\_search = 1),

student\_add int not null check (student\_add = 0 or student\_add = 1),

student\_delete int not null check (student\_delete = 0 or student\_delete = 1),

student\_change int not null check (student\_change = 0 or student\_change = 1),

student\_excel int not null check (student\_excel = 0 or student\_excel = 1),

teacher\_search int not null check (teacher\_search = 0 or teacher\_search = 1),

teacher\_add int not null check (teacher\_add = 0 or teacher\_add = 1),

teacher\_delete int not null check (teacher\_delete = 0 or teacher\_delete = 1),

teacher\_change int not null check (teacher\_change = 0 or teacher\_change = 1),

teacher\_excel int not null check (teacher\_excel = 0 or teacher\_excel = 1),

course\_search int not null check (course\_search = 0 or course\_search = 1),

course\_add int not null check (course\_add = 0 or course\_add = 1),

course\_delete int not null check (course\_delete = 0 or course\_delete = 1),

course\_change int not null check (course\_change = 0 or course\_change = 1),

course\_excel int not null check (course\_excel = 0 or course\_excel = 1),

department\_search int not null check (department\_search = 0 or department\_search = 1),

department\_add int not null check (department\_add = 0 or department\_add = 1),

department\_delete int not null check (department\_delete = 0 or department\_delete = 1),

department\_change int not null check (department\_change = 0 or department\_change = 1),

department\_excel int not null check (department\_excel = 0 or department\_excel = 1),

sct\_search int not null check (sct\_search = 0 or sct\_search = 1),

sct\_add int not null check (sct\_add = 0 or sct\_add = 1),

sct\_delete int not null check (sct\_delete = 0 or sct\_delete = 1),

sct\_change int not null check (sct\_change = 0 or sct\_change = 1),

sct\_excel int not null check (sct\_excel = 0 or sct\_excel = 1),

management\_search int not null check (management\_search = 0 or management\_search = 1),

management\_add int not null check (management\_add = 0 or management\_add = 1),

management\_delete int not null check (management\_delete = 0 or management\_delete = 1),

management\_change int not null check (management\_change = 0 or management\_change = 1),

management\_excel int not null check (management\_excel = 0 or management\_excel = 1),

password varchar(16) default '123456',

primary key (mno)

)

go

use SchoolDB

insert into course values ('100001', 'A01', null, 1)

insert into course values ('100002', 'A02', '100001', 2)

insert into course values ('100003', 'A03', '100002', 3)

insert into course values ('100004', 'A04', '100003', 4)

insert into course values ('100005', 'A05', null, 1)

insert into course values ('200001', 'B01', null, 1)

insert into course values ('200002', 'B02', '200001', 2)

insert into course values ('200003', 'B03', '200002', 3)

insert into course values ('200004', 'B04', '200003', 4)

insert into course values ('200005', 'B05', null, 1)

insert into course values ('300001', 'C01', null, 1)

insert into course values ('300002', 'C02', '300001', 2)

insert into course values ('300003', 'C03', '300002', 3)

insert into course values ('300004', 'C04', '300003', 4)

insert into course values ('300005', 'C05', null, 1)

go

use SchoolDB

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('10000001', 'AA1', '男', 26, '学士', '助教', '100001', null, null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('10000002', 'AA2', '男', 27, '学士', '助教', '100002', '100003', null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('10000003', 'AA3', '男', 28, '硕士', '讲师', '100003', '100004', '100005')

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('10000004', 'AA4', '男', 29, '硕士', '副教授', '100004', '100005', null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('10000005', 'AA5', '男', 30, '博士', '教授', '100005', null, null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('20000001', 'BB1', '女', 36, '学士', '助教', '200001', null, null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('20000002', 'BB2', '女', 37, '学士', '助教', '200002', '200003', null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('20000003', 'BB3', '女', 38, '硕士', '讲师', '200003', '200004', '200005')

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('20000004', 'BB4', '女', 39, '硕士', '副教授', '200004', '200005', null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('20000005', 'BB5', '女', 40, '博士', '教授', '200005', null, null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('30000001', 'AB1', '男', 46, '学士', '助教', '300001', null, null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('30000002', 'AB2', '女', 47, '学士', '助教', '300002', '300003', null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('30000003', 'AB3', '男', 48, '硕士', '讲师', '300003', '300004', '300005')

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('30000004', 'AB4', '女', 49, '硕士', '副教授', '300004', '300005', null)

insert into teacher (tno, tname, tsex, tage, teb, tpt, cno1, cno2, cno3) values ('30000005', 'AB5', '男', 50, '博士', '教授', '300005', null, null)

go

use SchoolDB

insert into department values ('101', 'A0A', '10000005')

insert into department values ('201', 'B0B', '20000005')

insert into department values ('301', 'C0C', '30000005')

go

use SchoolDB

insert into student (sno, sname, ssex, sage, sdept) values ('100000001', 'A11', '男', 14, '101')

insert into student (sno, sname, ssex, sage, sdept) values ('100000002', 'A22', '男', 15, '201')

insert into student (sno, sname, ssex, sage, sdept) values ('100000003', 'A33', '男', 16, '301')

insert into student (sno, sname, ssex, sage, sdept) values ('100000004', 'A44', '男', 17, '101')

insert into student (sno, sname, ssex, sage, sdept) values ('100000005', 'A55', '男', 18, '201')

insert into student (sno, sname, ssex, sage, sdept) values ('200000001', 'B11', '女', 19, '301')

insert into student (sno, sname, ssex, sage, sdept) values ('200000002', 'B22', '女', 20, '101')

insert into student (sno, sname, ssex, sage, sdept) values ('200000003', 'B33', '女', 21, '201')

insert into student (sno, sname, ssex, sage, sdept) values ('200000004', 'B44', '女', 22, '301')

insert into student (sno, sname, ssex, sage, sdept) values ('200000005', 'B55', '女', 23, '101')

go

use SchoolDB

insert into sct values ('100000001', '100001', '10000001', 96)

insert into sct values ('100000001', '100002', '10000002', 87)

insert into sct values ('100000001', '100003', '10000002', null)

insert into sct values ('200000001', '100001', '10000001', 97)

insert into sct values ('200000001', '100002', '10000002', 86)

insert into sct values ('200000001', '100003', '10000002', null)

go

use SchoolDB

insert into management (mno, student\_search, student\_add, student\_delete, student\_change, student\_excel, teacher\_search, teacher\_add, teacher\_delete, teacher\_change, teacher\_excel, course\_search, course\_add, course\_delete, course\_change, course\_excel, department\_search, department\_add, department\_delete, department\_change, department\_excel, sct\_search, sct\_add, sct\_delete,sct\_change, sct\_excel, management\_search, management\_add, management\_delete, management\_change, management\_excel) values ('1234567890', 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)

go