

实验报告 5 参考答案

问题:

1. 用 SQL 语句 (create database) 创建一个 MT+ “学号” 的数据库 (参考帮助文档)。
2. 用 SQL 语句建立所有基本表

— 本次作业主要参考是王家辉同学的代码, 请大家相互学习

```
create database MT10130001
```

```
use MT10130001
```

```
create table department(  
    dept_no char(2) primary key,  
    dept_name char(10)  
)
```

```
create table class(  
    class_no char(5) primary key,  
    class_name char(10) not null,  
    dept_no char(2),  
    FOREIGN KEY (dept_no) REFERENCES department(dept_no)  
)
```

```
create table student(  
    s_no char(6) primary key,  
    s_name char(10) not null,  
    s_sex char(2) check (s_sex='男' or s_sex='女'),  
    s_birthday date,  
    s_score numeric(5,1) CHECK (s_score>=0 and s_score<=100),  
    s_addf numeric(3,1) CHECK (s_addf>=0 and s_addf<=30),  
    class_no char(5),  
    FOREIGN KEY (class_no) REFERENCES class(class_no)  
)
```

```
create table course(  
    course_no char(5) primary key,  
    course_name char(20) not null  
)
```

```

create table teacher(
    t_no char(6) primary key,
    t_name char(8) not null,
    t_sex char(2) check (t_sex='男' or t_sex='女'),
    t_birthday date,
    teach_title char(10) check (teach_title in ('助教','讲师','副教授','教授'))
)

```

```

create table choice(
    s_no char(6) ,
    course_no char(5),
    score numeric(5,1) CHECK (score>=0 and score<=100),
    FOREIGN KEY (course_no) REFERENCES course(course_no),
    FOREIGN KEY (s_no) REFERENCES student(s_no) on delete cascade,
    primary key(s_no, course_no)
)

```

```

create table teaching(
    t_no char(6),
    course_no char(5),
    FOREIGN KEY (course_no) REFERENCES course(course_no),
    FOREIGN KEY (t_no) REFERENCES teacher(t_no) on delete cascade,
    primary key(t_no, course_no)
)

```

insert into department values

```

('1','数学系'),
('2','物理系')

```

insert into class values

```

('001','数131','1'),
('002','数133','1'),
('003','信计130','1'),
('004','应物130','2'),
('005','光电131','2'),
('006','光电132','2')

```

insert into student values

```

('2405','王家辉','男','1995-04-28',100,30,'001'),
('2406','张三','男','1995-01-28',80,30,'001'),
('2407','李四','女','1995-01-28',80,30,'004')

```

insert into course values

```

('101','数据库'),
('102','数据结构')

```

```
insert into teacher values
```

```
('3001', '张三', '男', '1980-01-01', '讲师')
```

```
insert into choice values
```

```
('2405', '101', 100),
```

```
('2405', '102', 100),
```

```
('2406', '101', 80)
```

```
insert into teaching values
```

```
('3001', '101'),
```

```
('3001', '102')
```