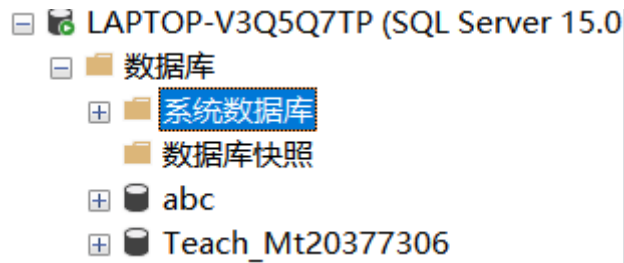# 20377306-王诗哲-数据库第一次作业

## 1.创建数据库

```
Create database Teach_Mt20377306
```



## 2.创建关系表
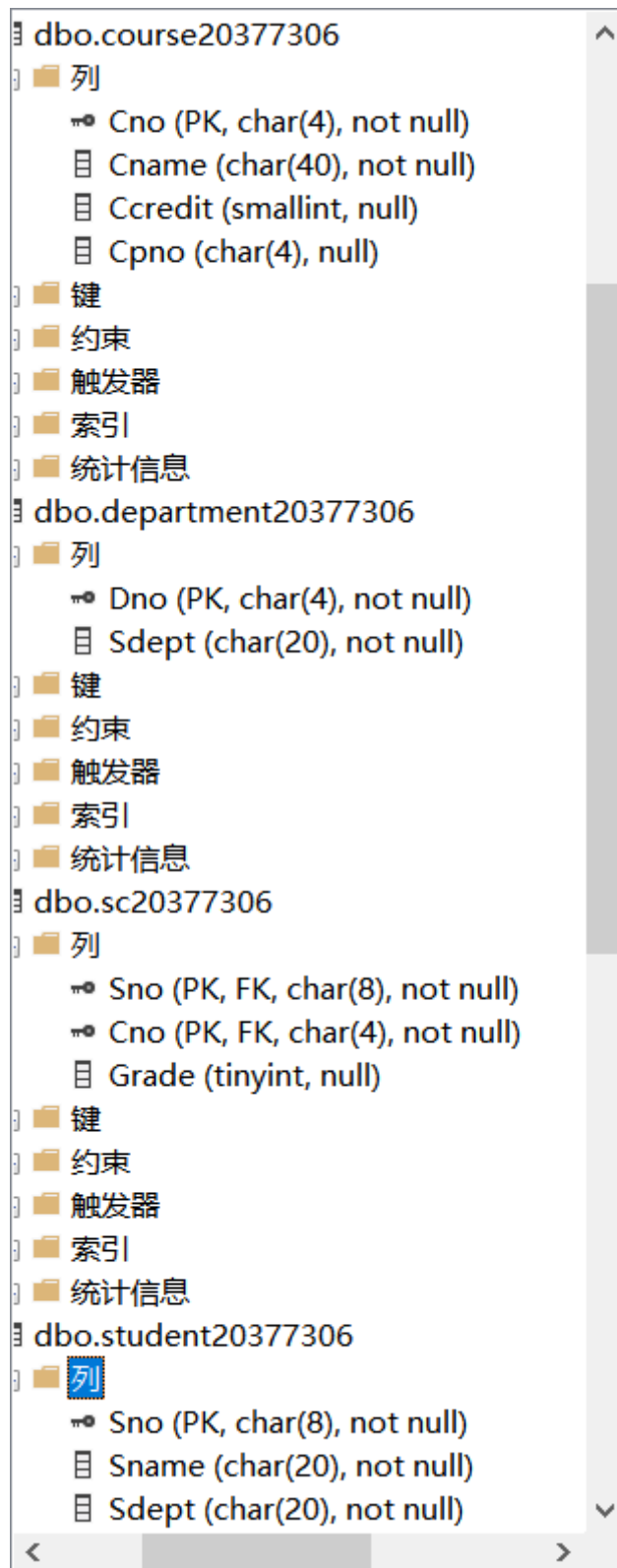
```
Create table department20377306(Dno char(4) not null primary key,
                        Sdept char(20) not null);

Create table student20377306(Sno char(8) not null Primary key,
                        Sname char(20) not null unique,
                        Sdept char(20) not null,
                        Ssex char(2) not null,
                        Sage smallint not null check (Sage<30),
                        Sbirthday Date null
                        );

Create table course20377306(Cno char(4) primary key,
                        Cname char(40) not null,
                        Ccredit smallint check(Ccredit<9),
                        Cpno char(4),
                        Foreign key(Cpno) References course20377306(Cno)
                        );

Create table sc20377306(Sno char(8) not null,
                    Cno char(4) not null,
                    Grade tinyint check(Grade<101),
                    Primary key(Sno,Cno),
                    Foreign key(Sno) References student20377306(Sno),
                    Foreign key(Cno) References course20377306(Cno)
                    );
```

- Teach_Mt20377306
  - 数据库关系图
  - 表
    - 系统表
    - FileTables
    - 外部表
    - 图形表
    - dbo.course20377306
    - dbo.department20377306
    - dbo.sc20377306
    - dbo.student20377306
  - 视图

- dbo.course20377306
  - 列
    - Cno (PK, char(4), not null)
    - Cname (char(40), not null)
    - Ccredit (smallint, null)
    - Cpno (char(4), null)
  - 键
  - 约束
  - 触发器
  - 索引
  - 统计信息
- dbo.department20377306
  - 列
    - Dno (PK, char(4), not null)
    - Sdept (char(20), not null)
  - 键
  - 约束
  - 触发器
  - 索引
  - 统计信息
- dbo.sc20377306
  - 列
    - Sno (PK, FK, char(8), not null)
    - Cno (PK, FK, char(4), not null)
    - Grade (tinyint, null)
  - 键
  - 约束
  - 触发器
  - 索引
  - 统计信息
- dbo.student20377306
  - 列
    - Sno (PK, char(8), not null)
    - Sname (char(20), not null)
    - Sdept (char(20), not null)

## 3.插入表中数据

```
insert into department20377306 values('1','CS')
insert into department20377306 values('2','IS')
insert into department20377306 values('3','MA')

select * from department20377306

insert into student20377306 values('20377100','李雪','CS','女',20,'2002-7-5')
insert into student20377306 values('20377101','王晨','CS','男',19,'2003-8-5')
insert into student20377306 values('20377102','刘洋','IS', '男',19,'2003-9-10')
```

```sql
insert into student20377306 values('20377103','陈敏','MA', '女',18,'2004-6-10')
insert into student20377306 values('20377104','刘远','IS', '男',19,'2003-9-19')

select * from student20377306

ALTER TABLE course20377306
DROP CONSTRAINT FK__course2037__Cpno__30F848ED

insert into course20377306 values('1','现代程设',2,'3')
insert into course20377306 values('2','数学分析',6,'1')
insert into course20377306 values('3','计算机基础',4,'2')
insert into course20377306 values('4','数据库',2,'3')
insert into course20377306 values('5','信息系统',3,'4')

select * from course20377306

insert into sc20377306 values('20377100','1',90)
insert into sc20377306 values('20377102','3',87)
insert into sc20377306 values('20377103','2',96)
insert into sc20377306 values('20377104','4',90)
insert into sc20377306 values('20377101','5',98)

select * from sc20377306
```

## department20377306:

| | Dno | Sdept |
|---|---|---|
| 1 | 1 | CS |
| 2 | 2 | IS |
| 3 | 3 | MA |

## student20377306;

| | Sno | Sname | Sdept | Ssex | Sage | Sbirthday |
|---|---|---|---|---|---|---|
| 1 | 20377100 | 李雪 | CS | 女 | 20 | 2002-07-05 |
| 2 | 20377101 | 王晨 | CS | 男 | 19 | 2003-08-05 |
| 3 | 20377102 | 刘洋 | IS | 男 | 19 | 2003-09-10 |
| 4 | 20377103 | 陈敏 | MA | 女 | 18 | 2004-06-10 |
| 5 | 20377104 | 刘远 | IS | 男 | 19 | 2003-09-19 |

## course20377306:

| | Cno | Cname | Ccredit | Cpno |
|---|---|---|---|---|
| 1 | 1 | 现代程设 | 2 | 3 |
| 2 | 2 | 数学分析 | 6 | 1 |
| 3 | 3 | 计算机基础 | 4 | 2 |
| 4 | 4 | 数据库 | 2 | 3 |
| 5 | 5 | 信息系统 | 3 | 4 |

## sc20377306:

| | Sno | Cno | Grade |
|---|---|---|---|
| 1 | 20377100 | 1 | 90 |
| 2 | 20377101 | 5 | 98 |
| 3 | 20377102 | 3 | 87 |
| 4 | 20377103 | 2 | 96 |
| 5 | 20377104 | 4 | 90 |