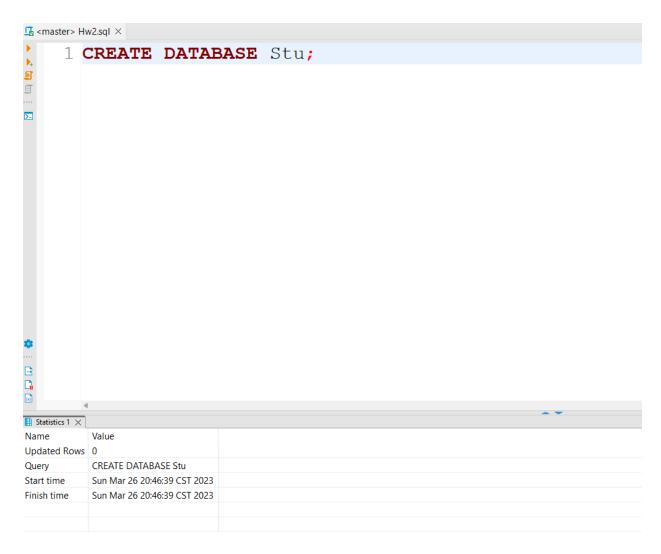
作业二

1. 建立数据库



2. 建表

建表SQL

```
CREATE TABLE DEPARTMENT(

DNO CHAR(4) PRIMARY KEY,

DName CHAR(20) UNIQUE,

head CHAR(20)
);
```

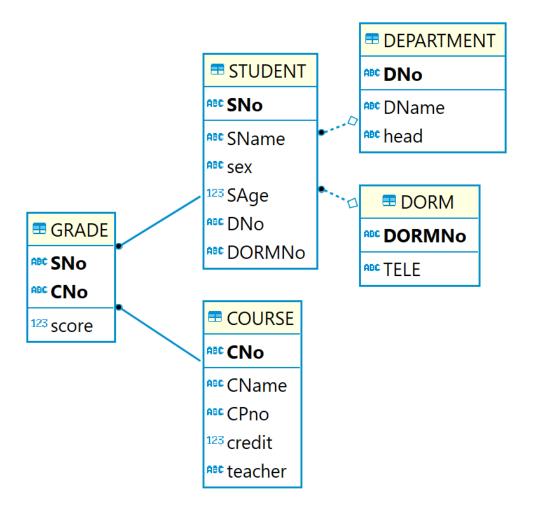
```
CREATE TABLE DORM(
    DORMNO CHAR(5) PRIMARY KEY,
   TELE CHAR(7)
);
CREATE TABLE COURSE(
    CNo CHAR(2) PRIMARY KEY,
    CName CHAR(20),
    CPno CHAR(2),
    credit INT,
   teacher CHAR(8)
);
CREATE TABLE STUDENT(
    SNO CHAR(6) PRIMARY KEY,
    SName CHAR(8).
    sex CHAR(2),
    SAge INT,
    DNo CHAR(4),
    DORMNO CHAR(5),
    FOREIGN KEY(DNo) REFERENCES
DEPARTMENT(DNo),
    FOREIGN KEY(DORMNO) REFERENCES DORM(DORMNO)
);
CREATE TABLE GRADE(
    SNo CHAR(6),
    CNo\ CHAR(2),
    score DECIMAL(4,1),
    FOREIGN KEY(SNo) REFERENCES STUDENT(SNo),
```

```
FOREIGN KEY(CNO) REFERENCES COURSE(CNO),
PRIMARY KEY(SNO,CNO)
);
```

建表成功没有报错:

Statistics 1 ×	
_	Value
Updated Rows	
Query	CREATE TABLE DEPARTMENT(
	DNo CHAR(4) PRIMARY KEY,
	DName CHAR(20) UNIQUE,
	head CHAR(20)
);
	CREATE TABLE DORM(
	DORMNo CHAR(5) PRIMARY KEY,
	TELE CHAR(7)
);
	CREATE TABLE COURSE(
	CNo CHAR(2)PRIMARY KEY,
	CName CHAR(20),
	CPno CHAR(2),
	credit INT,
	teacher CHAR(8)
);
	CREATE TABLE STUDENT(
	SNo CHAR(6) PRIMARY KEY,
	SName CHAR(8),
	sex CHAR(2),
	SAge INT,
	DNo CHAR(4),
	DORMNo CHAR(5),
	FOREIGN KEY(DNo) REFERENCES DEPARTMEN(DNo),
	FOREIGN KEY(DORMNo) REFERENCES DORM(DORMNo)
);
	CREATE TABLE GRADE(
	SNo CHAR(6),
	CNo CHAR(2),
	score DECIMAL(4,1),
	FOREIGN KEY(SNo) REFERENCES STUDENT(SNo),
	FOREIGN KEY(CNo) REFERENCES COURSE(CNo),
	PRIMARY KEY(SNo,CNo)):

建表的结果



3. 插入数据

插入SQL

```
INSERT INTO DEPARTMENT(DNo,DName,head) VALUES
('1','计算机系','王凯峰'),
('2','数学系','李永军'),
('3','物理系','唐键'),
('4','中文系','秦峰');

INSERT INTO DORM(DORMNo,tele) VALUES
('2101','8302101'),
('2202','8302202'),
('2303','8302303'),
```

```
('2404', '8302404').
('2505', '8302505');
INSERT INTO
COURSE(CNo, CName, CPNo, credit, teacher) VALUES
('01', '数据库原理', '05', 4, '王凯'),
('02', '高等数学', NULL, 6, '张风'),
('03', '信息系统', '01', 2, '李明'),
('04', '操作系统', '06', 4, '许强'),
('05', '数据结构', '07', 4, '路飞'),
('06', '算法设计', NULL, 2, '黄海'),
('07', 'C 语言', '06', 3, '高达');
INSERT INTO
STUDENT(SNo, SName, sex, SAge, DNo, DORMNo) VALUES
('990101', '原野', '男', 21, '1', '2101'),
('990102', '张原', '男', 21, '1', '2101'),
('990103', '李军', '男', 20, '1', '2101'),
('990104', '汪远', '男', 20, '1', '2101'),
('990105', '齐欣', '男', 20, '1', '2101'),
('990201', '王大鸣', '男', 19, '2', '2202'),
('980202', '徐东', '男', 19, '2', '2202'),
('980301', '张扬', '女', 21, '1', '2303'),
('990302', '于洋', '女', 20, '3', '2303'),
('990303', '姚志旬', '男', 19, '4', '2404'),
('990401', '高明镜', '男', 19, '4', NULL),
('990402', '明天', '男', 21, '4', '2404');
INSERT INTO GRADE(SNo,CNo,score) VALUES
('990101', '01', 85),
```

```
('990101', '03', 65),
('990101', '04', 83),
('990101', '07', 72),
('990102', '02', 80),
('990102', '04', 81),
('990102', '01', NULL),
('990103', '07', 74),
('990103', '06', 74),
('990103', '01', 74),
('990103', '02', 70),
('990103', '04', 70),
('990104', '01', 55),
('990104', '02', 42),
('990104', '03', 0),
('990105', '03', 85),
('990105', '06', NULL),
('980301', '01', 46),
('980301', '02', 70),
('990302', '01', 85),
('990401', '01', 0);
```

成功插入

```
42° INSERT INTO DEPARTMENT (DNo, DName, head) VALUES
    43 ('1','计算机系','王凯峰'),
        ('2','数学系','李永军'),
    44
        ('3','物理系','唐键'),
    45
                '中文系','秦峰')
    47
    48 INSERT INTO DORM (DORMNo, tele) VALUES
    49 ('2101', '8302101'),

■ Statistics 1 ×
Name
          Value
Updated Rows 4
          INSERT INTO DEPARTMENT(DNo.DName.head) VALUES
Query
          ('1','计算机系','王凯峰'),
          ('2','数学系','李永军'),
          ('3','物理系','唐键'),
          ('4','中文系','秦峰');
Start time
         Sun Mar 26 21:30:07 CST 2023
Finish time
        Sun Mar 26 21:30:07 CST 2023
    48 INSERT INTO DORM (DORMNo, tele) VALUES
    49 ('2101', '8302101'),
    50 ('2202', '8302202'),
    51 ('2303', '8302303'),
    52 ('2404', '8302404'),
    53 ('2505', '8302505');
    54
    55° INSERT INTO COURSE (CNo, CName, CPNo, credit, teacher) VA
■ Statistics 1 ×
          Value
Updated Rows 5
          INSERT INTO DORM(DORMNo,tele) VALUES
Query
          ('2101','8302101'),
          ('2202','8302202')
          ('2303','8302303'),
          ('2404','8302404'),
          ('2505','8302505');
Start time
          Sun Mar 26 21:30:59 CST 2023
          Sun Mar 26 21:30:59 CST 2023
   55 INSERT INTO COURSE (CNo, CName, CPNo, credit, teacher) VALUES
   56 ('01', '数据库原理', '05', 4, '王凯'),
   57
                 '高等数学', NULL, 6,
                 '信息系统'
   58
   59
   60 ('05', '数据结构',
                                           '黄海')
                 '算法设计', NULL, 2,
   61
  62
  63
   64 INSERT INTO STUDENT (SNo, SName, sex, SAge, DNo, DORMNo) VALUES
Statistics 1 ×
Updated Rows 7
       INSERT INTO COURSE(CNo,CName,CPNo,credit,teacher) VALUES
Query
        ('01', '数据库原理', '05', 4, '王凯'),
        ('02', '高等数学', NUIL, 6, '张风').
       ('03', '信息系统', '01', 2, '李明'),
       ('04', '操作系统', '06', 4, '许强'),
       ('05', '数据结构', '07', 4, '路飞'),
       ('06', '算法设计', NULL, 2, '黄海'),
       ('07', 'C 语言', '06', 3, '高达');
```

```
64 INSERT INTO STUDENT (SNo, SName, sex, SAge, DNo, DORMNo) VALUES
                                                    '2101'),
                      '原野',
   65
       ('990102',
   66
       ('990103',
                      '李军',
                                                    '2101'),
   67
                      '汪远',
   68 ('990104',
                                                    '2101'),
   69 ('990105',
                                      20,
                                                    '2101'),
                      '王大鸣',
   70 ('990201',
   71 ('980202',
   72 ('980301',
   73 ('990302',
                      '于洋',
                                                   '2303'),
       ('990303',
                      '姚志旬',
   74
                                '男', 19, '4', NULL),
   75 ('990401',
   76 ('990402', '明天', '男', 21, '4', '2404');
  77
   78 INSERT INTO GRADE (SNo, CNo, score) VALUES
■ Statistics 1 ×
        Value
Name
Updated Rows 12
       INSERT INTO STUDENT(SNo,SName,sex,SAge,DNo,DORMNo) VALUES
       ('990101', '原野', '男', 21, '1', '2101').
       ('990102', '张原', '里', 21, '1', '2101').
       ('990103', '李军', '男', 20, '1', '2101'),
       ('990104', '汪远', '男', 20, '1', '2101'),
        ('990105', '齐欣', '男', 20, '1', '2101'),
        ('990201', '王大鸣', '男', 19, '2', '2202'),
        ('980202', '徐东', '里', 19, '2', '2202').
    78 INSERT INTO GRADE (SNo, CNo, score) VALUES
    79 ('990101', '01', 85),
        ('990101'
    80
    81 ('990101',
                          1041, 83),
                           1071, 72),
    82 ('990101'
    83
        ('990102'
                                   80),
    84 ('990102'
                          '04', 81),
                          '01', NULL),
    85 ('990102'
                           '07', 74),
    86
        ('990103'
    87 ('990103',
                          '06', 74),
    88 ('990103'
                           '01', 74),
                                   70),
    89
        ('990103'
    90 ('990103'
                           '04', 70),
        ('990104'
                           '01', 55),
    91
                          1021, 42),
        ('990104'
    92
    93
        ('990104',
                           '03'
■ Statistics 1 ×
Name
Updated Rows 21
         INSERT INTO GRADE(SNo,CNo,score) VALUES
         ('990101', '01', 85),
         ('990101', '03', 65),
         ('990101', '04', 83),
         ('990101', '07', 72),
         ('990102', '02', 80),
         ('990102', '04', 81),
         ('990102', '01', NULL),
```