## 作业 4

- 1、切换到 student course 键空间
- 2、创建 students 表和 courses 表,表名前要加前缀,格式为姓名的第一个字母

```
cqlsh> describe keyspaces
student course system auth messagedb
                             system distributed
system schema
                system
cglsh> use student course
cqlsh:student_course> create table zkx_students(
                  ... sno text primary key,
                  ... sname text,
                  ... ssex text,
                  ... sage int,
                  ... major map (text, int),
                  ... dname text);
cqlsh:student_course> create table zkx_courses(
                  ... cno text primary key,
                  ... cname text,
                  ... pre_cno text,
                  ... credits int);
```

3、在2个表中分别插入行数据(按照基本表中给出的数据)

## 插入 zkx students:

```
cqlsh:student_course) insert into zkx_students(sno, sname, sage, ssex, major, dname)values

cqlsh:student_course) insert into zkx_students(sno, sname, sage, ssex, major, dname)values ('SO2','Li Hua', 19, 'Female', ('CO1':90, 'CO2':94, 'CO3':82], 'Automatic');

cqlsh:student_course) insert into zkx_students(sno, sname, sage, ssex, major, dname)values ('SO3', 'FanLinjum', 18, 'Female', ('CO1':72, 'CO2':90, 'Computer');

cqlsh:student_course) insert into zkx_students(sno, sname, sage, ssex, major, dname)values ('SO4','Li Wei', 19, 'Male', ('CO3':75], 'Mathematic');

cqlsh:student_course) insert into zkx_students(sno, sname, sage, ssex, major, dname)values ('SO5', 'Huang He', 18, 'Male', 'Mathematic');

InvalidRequest: Error from server: code=2200 [Invalid query] message= Unmathed column names/values

cqlsh:student_course) insert into zkx_students(sno, sname, sage, ssex, dname)values ('SO5', 'Huang He', 18, 'Male', 'Mathematic');

cqlsh:student_course) insert into zkx_students(sno, sname, sage, ssex, dname)values ('SO5', 'Chang Jiang', 20, 'Male', 'Mathematic');

cqlsh:student_course) insert into zkx_students(sno, sname, sage, ssex, dname)values ('SO6', 'Chang Jiang', 20, 'Male', 'Mathematic');

cqlsh:student_course)
```

## 插入 zkx courses:

```
cqlsh:student_course> insert into zkx_courses(cno, cname, pre_cno, credits)
... values('CO1', 'English', Null, 4)
...;
cqlsh:student_course> insert into zkx_courses(cno, cname, pre_cno, credits) values('CO2', 'Data Structure', 'CO1', 2);
cqlsh:student_course> insert into zkx_courses(cno, cname, pre_cno, credits) values('CO3', 'Data Base', 'CO2', 2);
cqlsh:student_course> _
```

4、在 Students 表的 Sname 和 major 列上分别创建索引

```
cqlsh:student_course> create index sname_index on zkx_students(sname); cqlsh:student_course> create index major_index on zkx_students(major); cqlsh:student_course> _
```

- 5、查询学生姓名是'wangjianping'的选修课信息
- 6、查询年龄超过20岁的学生信息及其选修课信息

cqlsh:student\_course> select sno,sname,major from zkx\_students where sname='Wang Jianping';

```
sno
      sname
                      major
                           : 92,
                                   : 84
(1 rows)
cqlsh:student course> select * from zkx students where sage>20 allow filtering;
sno
      dname
                  major
                                            sage
                                                                   ssex
                         : 92,
                                              21
                                    : 84}
(1 rows)
```