* CREATE DATABASE sql\_study
* USE sql\_study

CREATE TABLE ss\_student

(s\_no CHAR(9) PRIMARY KEY,

s\_name CHAR(20) UNIQUE,

s\_sex CHAR(2),

s\_age SMALLINT,

s\_dept CHAR(20)

);

CREATE TABLE ss\_course

(c\_no CHAR(4) PRIMARY KEY,

c\_name CHAR(40),

c\_pno CHAR(4), /\*先修课\*/

c\_credit SMALLINT,

CONSTRAINT fk\_c\_pno FOREIGN KEY (c\_pno) REFERENCES ss\_course(c\_no)

);

ALTER TABLE ss\_course DROP FOREIGN KEY fk\_c\_pno;

ALTER TABLE ss\_course ADD CONSTRAINT fk\_c\_pno FOREIGN KEY (c\_pno) REFERENCES ss\_course(c\_no);

CREATE TABLE ss\_sc

(s\_no CHAR(9),

c\_no CHAR(4),

sc\_grade SMALLINT,

CONSTRAINT Fk\_s\_no FOREIGN KEY (s\_no) REFERENCES ss\_student(s\_no),

CONSTRAINT Fk\_c\_no FOREIGN KEY (c\_no) REFERENCES ss\_course(c\_no)

);

ALTER TABLE ss\_sc Add PRIMARY KEY(s\_no,c\_no);

* -- ----------------------------

-- Records of ss\_course

-- ----------------------------

INSERT INTO `ss\_course` VALUES ('c1', 'c1', null, '1');

INSERT INTO `ss\_course` VALUES ('c2', 'c2', 'c1', '2');

INSERT INTO `ss\_course` VALUES ('c3', 'c3', 'c2', '3');

-- ----------------------------

-- Records of ss\_sc

-- ----------------------------

INSERT INTO `ss\_sc` VALUES ('s1', 'c1', '1');

INSERT INTO `ss\_sc` VALUES ('s1', 'c2', '2');

INSERT INTO `ss\_sc` VALUES ('s1', 'c3', '3');

INSERT INTO `ss\_sc` VALUES ('s3', 'c2', '2');

INSERT INTO `ss\_sc` VALUES ('s4', 'c1', '3');

INSERT INTO `ss\_sc` VALUES ('s4', 'c3', '1');

INSERT INTO `ss\_sc` VALUES ('s5', 'c1', '2');

-- ----------------------------

-- Records of ss\_student

-- ----------------------------

INSERT INTO `ss\_student` VALUES ('s1', 's1', 'm', '18', '1');

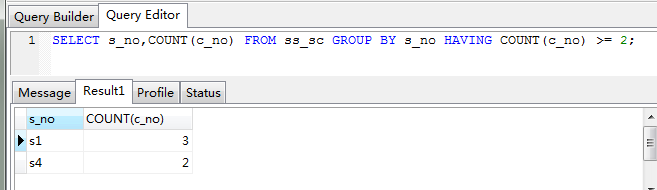
INSERT INTO `ss\_student` VALUES ('s2', 's2', 'w', '19', '2');

INSERT INTO `ss\_student` VALUES ('s3', 's3', 'w', '20', '3');

INSERT INTO `ss\_student` VALUES ('s4', 's4', 'w', '19', '4');

INSERT INTO `ss\_student` VALUES ('s5', 's5', 'm', '21', '5');

* SELECT s\_no, COUNT(c\_no) FROM ss\_sc GROUP BY s\_no HAVING COUNT(c\_no) >= 2;



* SELECT \* FROM ss\_student as s LEFT JOIN ss\_sc as s1 ON s.s\_no = s1.s\_no WHERE s.s\_age > 18;

