# 1.1

CREATE TABLE students (

sno VARCHAR(20) PRIMARY KEY,

sname VARCHAR(20) NOT NULL,

ssex CHAR(2) CHECK (ssex IN ('男', '女')),

sbirthday DATE,

sdept VARCHAR(20)

);

CREATE TABLE deps (

sdept VARCHAR(20) PRIMARY KEY,

dname VARCHAR(20) NOT NULL,

tel VARCHAR(20)

);

CREATE TABLE courses (

cno VARCHAR(20) PRIMARY KEY,

cname VARCHAR(20) NOT NULL,

ccredit INT,

cpno VARCHAR(20)

);

CREATE TABLE sc (

sno VARCHAR(20),

cno VARCHAR(20),

grade INT,

PRIMARY KEY (sno, cno),

FOREIGN KEY (sno) REFERENCES students(sno),

FOREIGN KEY (cno) REFERENCES courses(cno)

);

1．查询全体学生的学号、姓名、性别和年龄

2．查询选"数据库"课程的学生学号及成绩

3．查询系号为"S01"所有学生"001"号课的成绩

4．查询"管理系"所有选" DB "的学生姓名及成绩  
5．查询平均成绩大于或等于90分的学生学号、姓名和平均成绩、

SELECT sno, sname, ssex, year(GETDATE())-year(Sbirthday)as Sage

FROM students;

SELECT sc.sno, sc.grade

FROM sc

JOIN courses ON sc.cno = courses.cno

WHERE courses.cname = '数据库';

SELECT sc.sno, sc.grade

FROM sc

JOIN students ON sc.sno = students.sno

WHERE students.sdept = 'S01' AND sc.cno = '001';

SELECT students.sname, sc.grade

FROM sc

JOIN students ON sc.sno = students.sno

JOIN courses ON sc.cno = courses.cno

WHERE students.sdept = '管理系' AND courses.cname = 'DB';

SELECT students.sno, students.sname, AVG(sc.grade) AS average\_grade

FROM students

JOIN sc ON students.sno = sc.sno

GROUP BY students.sno, students.sname

HAVING AVG(sc.grade) >= 90;

# 1.2

SELECT SNAME, CITY FROM S;

SELECT PNAME, COLOR, WEIGHT FROM P;

SELECT P.PNAME, SPJ.QTY

FROM P

JOIN SPJ ON P.PNO = SPJ.PNO

WHERE SPJ.JNO = 'J2';

SELECT DISTINCT J.JNO

FROM J

JOIN SPJ ON J.JNO = SPJ.JNO

JOIN P ON SPJ.PNO = P.PNO

WHERE P.CITY = '天津';

SELECT DISTINCT J.JNAME

FROM J

JOIN SPJ ON J.JNO = SPJ.JNO

JOIN P ON SPJ.PNO = P.PNO

WHERE P.CITY = '上海';