```
CREATE TABLE StudentInfo ( CREATE TABLE CourseInfo (
  SID INTEGER (7) PRIMARY KEY,
                                  CID INTEGER (7) PRIMARY KEY,
  S Name VARCHAR(30),
                                     C Name VARCHAR (30) NOT
 GPA FLOAT(3,2),
                                   NULL,
 Major VARCHAR (30)
                                     FID INTEGER (7),
);
                                     CONSTRAINT CI FID FK
                                       FOREIGN KEY (FID)
                                       REFERENCES Faculty (FID)
                                       ON DELETE CASCADE
CREATE TABLE Faculty (
                                   );
  FID INTEGER (7) PRIMARY KEY,
  F Name VARCHAR(30) NOT
                                   CREATE TABLE CourseGrade (
NULL,
                                     SID INTEGER (7) NOT NULL,
  F Phone VARCHAR(15),
                                     CID INTEGER (7) NOT NULL,
 Salary FLOAT (7,2),
                                     Grade VARCHAR(1) NOT NULL,
 JoinDate DATETIME,
                                     PRIMARY KEY (SID, CID),
 Dept VARCHAR (10)
                                     CONSTRAINT CG SID FK
                                       FOREIGN KEY (SID)
);
                                       REFERENCES StudentInfo
                                    (SID)
                                       ON DELETE CASCADE,
                                     CONSTRAINT CG CID FK
                                       FOREIGN KEY (CID)
                                       REFERENCES CourseInfo
                                    (CID)
                                       ON DELETE CASCADE
                                   );
```

1. Show the Course ID and grade of the courses that Jones has taken. (1 result)

```
SELECT CID, Grade
FROM CourseGrade
WHERE SID IN
  (SELECT SID
  FROM StudentInfo
  WHERE S Name = "Jones");
```

2. For each of the students with an IS major, show the Course ID and the grades of all the courses they have taken. (8 results)

```
SELECT CID, Grade
FROM CourseGrade
WHERE SID IN
  (SELECT SID
  FROM StudentInfo
  WHERE Major = "IS");
```

3. Show the phone number and name of the faculty who is teaching ISM 301. (1 result)

```
SELECT F_Name, F_Phone
FROM Faculty
WHERE FID IN
  (SELECT FID
  FROM CourseInfo
  WHERE C_Name = "ISM 301");
```

4. For each of the students whose name starts with an 'A', show the course name of all the courses that he/she has taken. (2 results)

```
SELECT C_Name
FROM CourseInfo
WHERE CID IN
  (SELECT CID
  FROM CourseGrade
  WHERE SID IN
   (SELECT SID
   FROM StudentInfo
   WHERE S_Name LIKE "A%"));
```

5. Show the name of the faculty who earns the highest salary. (1 result)

```
SELECT F_Name
FROM Faculty
WHERE Salary =
   (SELECT MAX(Salary)
   FROM Faculty);
```

6. Show the name(s) of the faculty who earns more than the average salary. (2 results)

```
SELECT F_Name
FROM Faculty
WHERE Salary >
   (SELECT AVG(Salary)
   FROM Faculty);
```

7. Show the name(s) of the students who have gotten an A in ISM 218. (3 results)

```
SELECT S_Name
FROM StudentInfo
WHERE SID IN
  (SELECT SID
  FROM CourseGrade
  WHERE Grade = "A" AND CID IN
      (SELECT CID
      FROM CourseInfo
      WHERE C_Name = "ISM 218"));
```

8. Show the grade in the ISM 218 course for student ID 2. (1 result)

```
SELECT Grade
FROM CourseGrade
WHERE SID = 2 AND CID =
  (SELECT CID
  FROM CourseInfo
  WHERE C_Name = "ISM 218");
```

9. Show the name of the course where student ID 1 received an A. (1 result)

```
SELECT C_Name
FROM CourseInfo
WHERE CID IN
  (SELECT CID
  FROM CourseGrade
  WHERE Grade = "A" AND SID = 1);
```