Sub Query Exercises

```
CREATE TABLE StudentInfo (
  SID INTEGER(7) PRIMARY KEY,
  S_Name VARCHAR(30),
  GPA FLOAT(3,2),
  Major VARCHAR(30)
);
```

```
CREATE TABLE Faculty (
  FID INTEGER(7) PRIMARY KEY,
  F_Name VARCHAR(30) NOT NULL,
  F_Phone VARCHAR(15),
  Salary FLOAT(7,2),
  JoinDate DATETIME,
  Dept VARCHAR(10)
);
```

```
CREATE TABLE CourseInfo (
  CID INTEGER(7) PRIMARY KEY,
  C_Name VARCHAR(30) NOT NULL,
  FID INTEGER(7),
  CONSTRAINT CI_FID_FK
    FOREIGN KEY (FID)
    REFERENCES Faculty (FID)
    ON DELETE CASCADE
);
```

```
CREATE TABLE CourseGrade (
  SID INTEGER(7) NOT NULL,
  CID INTEGER(7) NOT NULL,
  Grade VARCHAR(1) NOT NULL,
  PRIMARY KEY (SID, CID),
  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)**
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)**
3. Show the phone number and name of the faculty who is teaching ISM 301. **(1 result)**
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)**
5. Show the name of the faculty who earns the highest salary. **(1 result)**
6. Show the name(s) of the faculty who earns more than the average salary. **(2 results)**
7. Show the name(s) of the students who have gotten an A in ISM 218**. (3 results)**
8. Show the grade in the ISM 218 course for student ID 2. **(1 result)**
9. Show the name of the course where student ID 1 received an A. **(1 result)**