4.12 a.

```
SELECT Name
FROM STUDENT
WHERE Class=4 AND Major='CS';
```

    b.

```
SELECT Course_name
FROM COURSE C, SECTION S
WHERE C.Course_number=S.Course_number AND
      Instructor='King' AND
      (Year='07' OR Year='08');
```

    c.

```
SELECT Course_number, Semester, Year, Count(*)
FROM SECTION S, GRADE_REPORT GR
WHERE Instructor='King' AND
      S.Section_identifier=GR.Section_identifier
GROUP BY Course_number, Semester, Year;
```

    d.

```
SELECT Name, Course_name, C.Course_number,
       Credit_hours, Semester, Year, Grade
FROM STUDENT S, COURSE C, SECTION SE, GRADE_REPORT GR
WHERE Class=4 AND
      S.Student_number=GR.Student_number AND
      GR.Section_identifier=SE.Section_identifier AND
      SE.Course_number=C.Course_number;
```

5.6 a.

```
SELECT Name, Major
FROM STUDENT
WHERE NOT EXISTS
          (        SELECT Student_number
                   FROM GRADE_REPORT
                   WHERE NOT(Grade="A")
                   GROUP BY Student_number);
```

5.7 a.

```
 SELECT Fname, Minit, Lname
FROM EMPLOYEE
WHERE Dno = (
        SELECT Dno
        FROM EMPLOYEE
        WHERE Salary = (
                SELECT MAX( Salary )
                FROM EMPLOYEE ) ) ;
```

b.

```
 SELECT Fname, Minit, Lname
FROM EMPLOYEE
WHERE Super_ssn IN (
        SELECT Ssn
        FROM EMPLOYEE
        WHERE Super_ssn='888665555' ) ;
```

c.

```
 SELECT Fname, Minit, Lname
FROM EMPLOYEE
WHERE Salary >= (
        ( SELECT MIN( Salary ) FROM EMPLOYEE)+10000 ) ;
```