```
a. select * from course where credits > 3;
     № course_id

‡ III title

                                             I credits ≎
   1 BIO-101
                    Intro. to Biology
                                              Biology
   2 BIO-301
                    Genetics
                                              Biology
   3 CS-101
                    Intro. to Computer Science
                    Game Design
   4 CS-190
                    Physical Principles
   5 PHY-101
                                              Physics
             ■ capacity ≎
  I building
1 Packard
                                         500
2 Watson
                                          30
               120
3 Watson
  № course_id

‡ I title

                                          I credits ≎
1 CS-101
                 Intro. to Computer Science
                                                                       4
2 CS-190
                 Game Design
3 CS-315
                 Robotics
4 CS-319
                 Image Processing
5 CS-347
                 Database System Concepts Comp. Sci.
d. select course.course id, title, dept name, credits, semester
   where course.course id = section.course id and semester = 'Fall';
           💠 🔢 title
                                  1 CS-101
                                                          4 Fall
              Intro. to Computer Science
             Database System Concepts
                                                          3 Fall
3 PHY-101
             Physical Principles
                                                          4 Fall
e. select * from student where tot cred > 45 and tot cred < 90;
   🣭 id
          ■ tot_cred $
1 19991
                                                          80
             Brandt
                         History
2 44553
             Peltier
                         Physics
                                                          56
3 45678
             Levy
                         Physics
                                                          46
4 54321
             Williams
                         Comp. Sci.
                                                          54
5 76543
                         Comp. Sci.
             Brown
                                                          58
6 76653
             Aoi
                         Elec. Eng.
                                                          60
f. select * from student where name like '%a'
   🣭 id

‡ ■ dept_name

                                                  ■ tot_cred ≎
1 76653
              Aoi
                           Elec. Eng.
                                                              60
 2 98988
                                                             120
                           Biology
              Tanaka
```

```
course, prereq
   where prereq.course id = course.course id and prereq id = 'CS-101';
  ■ course_id
                                           💠 🔢 title
                                                           💠 🔢 prereq_id
1 CS-190
                   Game Design
                                             Comp. Sci.
                                                             CS-101
2 CS-315
                   Robotics
                                             Comp. Sci.
                                                             CS-101
3 CS-319
                  Image Processing
                                             Comp. Sci.
                                                             CS-101
                   Database System Concepts
4 CS-347
                                          Comp. Sci.
                                                             CS-101
a. select dept name, round(avg(salary)) as avg salary
   from instructor
   ■ dept_name
                       ■ avg_salary ÷
1 Music
                                40000
2 History
                                61000
3 Biology
                                72000
4 Comp. Sci.
                                77333
5 Elec. Eng.
                                80000
6 Finance
                                85000
7 Physics
                                91000
e. select * from instructor
          💠 🔙 name 💠 📭 dept_name
    . id
                                                           II salary ≎
                                Music
 1 15151
                Mozart
                                                               40000.00
 2 76766 Crick
                                Biology
                                                               72000.00
f. select instructor.name from instructor
   where instructor.name in (
        (select instructor.name
       from instructor, teaches
        (select instructor.name
       from instructor, teaches
```

```
■ name
1 Wu
2 Mozart
3 El Said
4 Katz
   where student.id = takes.id and student.dept name = 'Comp. Sci.'
   ■id
          1 76543
            Brown
                       Comp. Sci.
                       Comp. Sci.
2 12345
            Shankar
3 54321
            Williams
                       Comp. Sci.
4 00128
                       Comp. Sci.
            Zhang
5 00128
            Zhang
                       Comp. Sci.
                                       A -
b. select distinct instructor.name
   from instructor, takes, advisor
   where instructor.id = advisor.i id and advisor.s id = takes.ID
            or takes.grade = 'C-' or takes.grade = 'F' or takes.grade is
  .⊞ name
1 Crick
2 Einstein
3 Kim
4 Singh
5 Srinivasan
c. select distinct dept name from student
  I dept_name
1 Finance
2 History
3 Music
4 Biology
d. select distinct instructor.name from instructor
```

