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1  /* BuchananBrandonLab1.sql
2  ----- \
3  Programmer's Name: Brandon Buchanan
4  Course: CSCI2020                      Section Number: 002
5  Creation Date: 09/14/2011             Date of Last Modification: 09/14/2011
6  E-mail address: zbw88@goldmail.etsu.edu
7  ----- \
8  Purpose -
9  Lab 1 - introduction to SQL
10 ----- \
11 Notes on specifications, special algorithms, and assumptions:
12 Designed to work on the database created by the schooldb.sql
13 script
14 */
15
16 /* 1. - List all majors offered */
17
18 select MAJOR.NAME as MAJOR-1
19    from MAJOR;
20
21 /* 2. - List all departments located in Nicks Hall */
22
23 select DEPARTMENT.NAME
24    from DEPARTMENT
25   where DEPARTMENT.BUILDING = 'Nicks';
26
27 /* 3. - List names of building alphabetically where major departments \
   are.
28         Duplicates are not shown. */
29
30 select distinct DEPARTMENT.BUILDING
31    from DEPARTMENT
32   order by-1 BUILDING asc;
33
34 /* 4. - List the ID, name, and credit hours of all courses that are 1 \
   or 2
35         credit hours. */
36
37 select COURSE.ID, COURSE.NAME, COURSE.CREDIT_HOURS
38    from COURSE
```

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39     where COURSE.CREDIT_HOURS = 1
40         or COURSE.CREDIT_HOURS = 2
41     order by COURSE.CREDIT_HOURS asc;
42
43  /* 5. - Show students' high schools alphabetically with no duplicates. \
    */
44
45  select distinct STUDENT.HIGH_SCHOOL
46  from STUDENT
47  order by STUDENT.HIGH_SCHOOL asc;
48
49  /* 6. - List all department chairs. */
50
51  select INSTRUCTOR.FAMILY_NAME as DEPARTMENT_CHAIRS
52  from INSTRUCTOR
53  where INSTRUCTOR.ROLE = 'Chair';
54
55  /* 7. - Show CSCI instructors and his/her role ordered by the date he/ \
    she
56         was hired. */
57
58  select INSTRUCTOR.FAMILY_NAME, INSTRUCTOR.ROLE
59  from INSTRUCTOR
60  where INSTRUCTOR.DEPARTMENT = 'CSCI'
61  order by INSTRUCTOR.HIRED asc;
62
63  /* 8. - List the family name of the CSCI department chair. */
64
65  select INSTRUCTOR.FAMILY_NAME as CSCI_CHAIR
66  from INSTRUCTOR
67  where INSTRUCTOR.ROLE = 'Chair'
68        and INSTRUCTOR.DEPARTMENT = 'CSCI';
69
70  /* 9. - List all students with a GPA score of 3.5 and higher and an
71         ACT score of 30 or higher. */
72
73  select STUDENT.GIVEN_NAME, STUDENT.FAMILY_NAME, STUDENT.HS_GPA,
74         STUDENT.ACT_SCORE
75  from STUDENT
76  where STUDENT.HS_GPA >= 3.5
77        and STUDENT.ACT_SCORE >= 30
78  order by STUDENT.FAMILY_NAME, STUDENT.GIVEN_NAME asc;
79
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80  /* 10. - List all ID, name, and credit hours of all CSCI courses that
81           are 3 or 4 credit hours */
82
83  select COURSE.ID, COURSE.NAME, COURSE.CREDIT_HOURS
84  from COURSE
85  where COURSE.DEPARTMENT = 'CSCI'
86         and (COURSE.CREDIT_HOURS = 3
87              or COURSE.CREDIT_HOURS = 4)
88  order by COURSE.ID asc;
89
```

Make your comments more verbose. Restate the question, and then explain how the query answers it.