Joe Skinner

CSC 424

Lab 6

SELECT cnum, name FROM course

WHERE cnum IN (SELECT sec.cnum FROM section AS sec

WHERE EXISTS (SELECT r.secnum FROM report AS r

WHERE sec.secnum=r.secnum AND sec.term=r.term AND r.snum IN (SELECT r1.snum FROM report AS r1

WHERE EXISTS (SELECT \* FROM section AS sec1

WHERE sec1.cnum="CSC330" AND sec1.secnum=r1.secnum AND sec1.term=r1.term))));

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | cnum | name | | CSC211 | Data Structures | | CSC330 | Topics in Information Systems | | CSC424 | Introduction to Database Systems | | CSC733 | Natural Language Processing | | GOV100 | Introduction to Political Science | | MTH153 | Introduction to Discrete Mathematics | |  |
|  |  |
| SELECT  st.snum AS Student\_Number, st.lastName AS Last\_Name, c1.cnum AS course1, c1.dept AS Department1, c1.level AS level1, r1.snum AS student\_number1, r1.secnum AS Section\_Number1, r1.term AS Term1, r1.grade AS grade1, s1.secnum AS sec\_num1, s1.term AS sec\_term1, c2.cnum AS course2, c2.dept AS Department2, c2.level AS level2, r1.snum AS student\_number2, r2.secnum AS Section\_Number2, r2.term AS Term2, r2.grade AS grade2, s2.term AS sec2\_term, s2.secnum AS sec\_num2  FROM student AS st, course AS c1, course AS c2, report AS r1, report AS r2, section AS s1, section AS s2  WHERE  st.snum = r1.snum AND r1.secnum = s1.secnum AND r1.term = s1.term AND s1.cnum = c1.cnum AND st.snum = r2.snum AND r2.secnum = s2.secnum AND r2.term = s2.term AND s2.cnum = c2.cnum AND c1.dept = 'MATH' AND c2.dept = 'CS' AND r1.grade > r2.grade AND c1.level < c2.level   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Student\_Number | Last\_Name | course1 | Department1 | level1 | student\_number1 | Section\_Number1 | Term1 | grade1 | sec\_num1 | sec\_term1 | course2 | Department2 | level2 | student\_number2 | Section\_Number2 | Term2 | grade2 | sec2\_term | sec\_num2 | | 987654321 | Clinton | MTH153 | MATH | 1 | 987654321 | 4190 | S99 | B | 4190 | S99 | CSC424 | CS | 4 | 987654321 | 4190 | F09 | A | F09 | 4190 | | 987654321 | Clinton | MTH153 | MATH | 1 | 987654321 | 4190 | S99 | B | 4190 | S99 | CSC211 | CS | 2 | 987654321 | 5387 | S02 | A | S02 | 5387 | |  |
| SELECT DISTINCT  st1.snum AS professorNum,st1.lastName AS Professor,c1.cnum AS course1,r11.secnum AS sec1,r11.term term1,r11.grade AS grade1st,  c2.cnum AS course2,r12.secnum AS sec2,r12.term term2,r12.grade AS grade2st,st2.snum AS studentNum,st2.lastName AS Student,c1.cnum AS course1,  r21.secnum AS sec1,r21.term term1,r21.grade AS grade1,c2.cnum AS course2,r22.secnum AS course2,r22.term term2,r22.grade AS grade2  FROM student AS st1,report AS r11,section AS s11,course AS c1,report AS r12,section AS s12,course AS c2,student AS st2,report AS r21,section AS s21,report AS r22,section AS s22  WHERE st1.snum IN  (SELECT pnum FROM prof)  AND st2.snum IN  (SELECT snum FROM student)  AND st1.snum = r11.snum AND s11.secnum = r11.secnum  AND s11.cnum = c1.cnum AND s11.term = r11.term  AND st1.snum = r12.snum AND r12.secnum = s12.secnum  AND r12.term = s12.term AND s12.cnum = c2.cnum  AND st2.snum = r21.snum AND s21.secnum = r21.secnum  AND s21.term = r21.term AND s21.cnum = c1.cnum  AND s22.cnum = c2.cnum AND st2.snum = r22.snum  AND s22.secnum = r22.secnum AND s22.term = r22.term  AND c1.dept = c2.dept AND c1.level < c2.level  AND r11.grade = r21.grade AND r12.grade < r22.grade AND r11.snum <> r21.snum     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | professorNum | Professor | course1 | sec1 | term1 | grade1st | course2 | sec2 | term2 | grade2st | studentNum | Student | course1 | sec1 | term1 | grade1 | course2 | course2 | term2 | grade2 | | 987654321 | Clinton | CSC211 | 5387 | S02 | A | CSC330 | 1234 | S02 | B | 345098765 | Ali | CSC211 | 2597 | F07 | A | CSC330 | 1234 | S02 | C | | 345098765 | Ali | CSC211 | 2597 | F07 | A | CSC733 | 7777 | F02 | A | 798783733 | Lincoln | CSC211 | 9023 | S08 | A | CSC733 | 7777 | F02 | B | |  |