Cesar Santiago

ID: 970403634

COP4710 Database Systems

Pf. J. Teichert

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX1\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> edit

Wrote file afiedt.buf

1 SELECT s.stno

2 FROM Student s, Grade g

3 WHERE s.stno = g.student\_number

4 AND (g.grade = 'A' OR g.grade = 'B')

5 AND g.section\_id IN (SELECT section\_ID

6 FROM Section

7\* WHERE semester LIKE '%FALL%')

SQL> /

STNO

----------

13

8

3

20

3

14

3

8

15

3

122

STNO

----------

129

121

123

24

3

2

17 rows selected.

SQL> edit

Wrote file afiedt.buf

1 SELECT s.stno

2 FROM Student s INNER JOIN Grade g ON s.stno = g.stundent\_number

3 INNER JOIN Section t ON g.section\_id = t.section\_id

4 WHERE (g.grade = 'A' OR g.grade = 'B')

5\* AND semester LIKE '%FALL%'

SQL> /

STNO

----------

13

8

3

20

3

14

3

8

15

3

122

STNO

----------

129

121

123

24

3

2

17 rows selected.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX2\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> edit

Wrote file afiedt.buf

1 SELECT s.stno, c.course\_name, g.grade

2 FROM Student s, Section t, Grade g, Course c

3 WHERE s.stno = g.student\_number

4 AND g.section\_id = t.section\_id

5 AND t.course\_num = c.course\_number

6\* AND c.course\_number LIKE 'ACCT%'

SQL> /

STNO COURSE\_NAME GRA

---------- ------------------------------------------------------------ ---

13 ACCOUNTING II B

5 ACCOUNTING II B

6 ACCOUNTING II B

7 ACCOUNTING II B

8 ACCOUNTING II B

9 ACCOUNTING II F

121 ACCOUNTING II B

122 ACCOUNTING II B

123 ACCOUNTING II B

125 ACCOUNTING II B

126 ACCOUNTING II B

STNO COURSE\_NAME GRA

---------- ------------------------------------------------------------ ---

127 ACCOUNTING II B

128 ACCOUNTING II F

129 ACCOUNTING II B

130 ACCOUNTING II C

24 ACCOUNTING II B

24 MANAGERIAL FINANCE

34 MANAGERIAL FINANCE

49 MANAGERIAL FINANCE

123 MANAGERIAL FINANCE

125 MANAGERIAL FINANCE

126 MANAGERIAL FINANCE

STNO COURSE\_NAME GRA

---------- ------------------------------------------------------------ ---

127 MANAGERIAL FINANCE

151 MANAGERIAL FINANCE

153 MANAGERIAL FINANCE

155 MANAGERIAL FINANCE

157 MANAGERIAL FINANCE

158 MANAGERIAL FINANCE

160 MANAGERIAL FINANCE

161 MANAGERIAL FINANCE

163 MANAGERIAL FINANCE

20 ACCOUNTING INFO SYST C

62 ACCOUNTING INFO SYST C

STNO COURSE\_NAME GRA

---------- ------------------------------------------------------------ ---

70 ACCOUNTING INFO SYST C

49 ACCOUNTING INFO SYST C

5 ACCOUNTING INFO SYST C

6 ACCOUNTING INFO SYST C

7 ACCOUNTING INFO SYST C

8 ACCOUNTING INFO SYST C

9 ACCOUNTING INFO SYST F

121 ACCOUNTING INFO SYST B

122 ACCOUNTING INFO SYST B

123 ACCOUNTING INFO SYST B

125 ACCOUNTING INFO SYST C

STNO COURSE\_NAME GRA

---------- ------------------------------------------------------------ ---

126 ACCOUNTING INFO SYST C

127 ACCOUNTING INFO SYST C

128 ACCOUNTING INFO SYST F

129 ACCOUNTING INFO SYST A

130 ACCOUNTING INFO SYST C

49 rows selected.

* The reason why we cannot use a subquery is because Course is in the main query’s select statement which cannot be reached from a subquery

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX3\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> edit

Wrote file afiedt.buf

1 SELECT s.sname, d.dname

2 FROM Student s, Section t, Grade g, Course c, Department d

3 WHERE s.stno = g.student\_number

4 AND g.section\_ID = t.section\_ID

5 AND t.course\_num = c.course\_number

6 AND c.offering\_dept = d.dcode

7\* AND s.class = 2

SQL> /

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Brenda

Mathematics

Brenda

Computer Science

Brenda

Accounting

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Brenda

Accounting

Brenda

Computer Science

Brenda

Computer Science

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Brenda

English

Brenda

English

Brenda

Computer Science

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Brenda

Chemistry

Reva

Mathematics

Reva

Computer Science

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Reva

English

Reva

Computer Science

Reva

Computer Science

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Reva

Computer Science

Reva

Mathematics

Harley

Computer Science

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Harley

Computer Science

Harley

English

Harley

Mathematics

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Sadie

Computer Science

Sadie

Computer Science

Sadie

Accounting

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Sadie

Accounting

Sadie

Accounting

Sadie

Computer Science

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Jessica

Computer Science

Jessica

Computer Science

Jessica

Accounting

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Jessica

Accounting

Jessica

Accounting

Jessica

Computer Science

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Cedric

Computer Science

Cedric

Accounting

Cedric

Accounting

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Alan

Computer Science

Alan

Accounting

Alan

Accounting

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Smithly

English

Smithly

English

Smithly

Computer Science

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Smithly

Political Science

Smithly

Mathematics

Smithly

Chemistry

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Sebastian

English

Sebastian

English

Sebastian

Computer Science

SNAME

------------------------------------------------------------

DNAME

------------------------------------------------------------

Sebastian

Political Science

Sebastian

Mathematics

Sebastian

Chemistry

51 rows selected.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX4\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> edit

Wrote file afiedt.buf

1 SELECT d.dname

2 FROM Course c, Department d

3 WHERE c.offering\_dept = d.dcode

4 AND c.course\_number LIKE '%2\_\_\_'

5 OR c.course\_number LIKE '%3\_\_\_'

6 MINUS

7 SELECT d.dname

8 FROM Course c, Department d

9 WHERE c.offering\_dept = d.dcode

10\* AND c.course\_number LIKE '%1\_\_\_'

SQL> /

DNAME

------------------------------------------------------------

Accounting

Art

Chemistry

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX5\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> edit

Wrote file afiedt.buf

1 SELECT c.course\_name, c.course\_number

2 FROM Course c, Prereq p

3 WHERE c.course\_number = p.prereq

4\* OR c.course\_number = p.course\_number

SQL> .

SQL> /

COURSE\_NAME

------------------------------------------------------------

COURSE\_NUMBER

------------------------

MANAGERIAL FINANCE

ACCT3333

ORGANIC CHEMISTRY

CHEM3001

DATA STRUCTURES

COSC3320

COURSE\_NAME

------------------------------------------------------------

COURSE\_NUMBER

------------------------

DATABASE

COSC3380

DATABASE

COSC3380

ADA - INTRODUCTION

COSC5234

COURSE\_NAME

------------------------------------------------------------

COURSE\_NUMBER

------------------------

ENGLISH COMP II

ENGL1011

FUND. TECH. WRITING

ENGL3401

WRITING FOR NON MAJO

ENGL3520

COURSE\_NAME

------------------------------------------------------------

COURSE\_NUMBER

------------------------

MATH ANALYSIS

MATH5501

AMERICAN GOVERNMENT

POLY2103

POLITICS OF CUBA

POLY5501

COURSE\_NAME

------------------------------------------------------------

COURSE\_NUMBER

------------------------

ACCOUNTING II

ACCT2220

INTRO TO CHEMISTRY

CHEM2001

INTRO TO COMPUTER SC

COSC1310

COURSE\_NAME

------------------------------------------------------------

COURSE\_NUMBER

------------------------

DATA STRUCTURES

COSC3320

DATA STRUCTURES

COSC3320

ENGLISH COMP I

ENGL1010

COURSE\_NAME

------------------------------------------------------------

COURSE\_NUMBER

------------------------

ENGLISH COMP II

ENGL1011

ENGLISH COMP II

ENGL1011

ALGEBRA

MATH2333

COURSE\_NAME

------------------------------------------------------------

COURSE\_NUMBER

------------------------

DISCRETE MATHEMATICS

MATH2410

AMERICAN CONSTITUTIO

POLY1201

SOCIALISM AND COMMUN

POLY4103

24 rows selected.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX6\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> edit

Wrote file afiedt.buf

1 SELECT t.instructor

2 FROM Section t, Course c

3 WHERE t.course\_num = c.course\_number

4 AND c.credit\_hours IN (SELECT c.credit\_hours

5 FROM Course c

6 WHERE c.credit\_hours = 1

7 OR c.credit\_hours = 2

8\* OR c.credit\_hours = 4)

SQL> /

INSTRUCTOR

------------------------------

SCHMIDT

KNUTH

ANDERSON

RAFAELT

ANDERSON

JONES

SCHMIDT

HILLARY

HILLARY

SCHMIDT

10 rows selected.

SQL> edit

Wrote file afiedt.buf

1 SELECT t.instructor

2 FROM Section t, Course c

3 WHERE t.course\_num = c.course\_number

4 AND NOT c.credit\_hours IN (SELECT c.credit\_hours

5 FROM Course c

6\* WHERE c.credit\_hours = 3)

SQL> /

INSTRUCTOR

------------------------------

SCHMIDT

KNUTH

ANDERSON

RAFAELT

ANDERSON

JONES

SCHMIDT

SCHMIDT

HILLARY

HILLARY

10 rows selected.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX7\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL>

SQL> CREATE TABLE Secretary (dcode CHAR(4), name VARCHAR2(20));

Table created.

SQL> INSERT INTO Secretary VALUES ('ACCT', 'Sally');

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Secretary VALUES ('COSC', 'Chris')

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO Secretary VALUES ('ENGL', 'Maria')

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1 SELECT d.dname

2 FROM Department d

3 WHERE d.dcode IN (SELECT y.dcode

4\* FROM Secretary y)

SQL> /

DNAME

------------------------------------------------------------

Accounting

Computer Science

English

SQL> edit

Wrote file afiedt.buf

1 SELECT d.dname

2 FROM Department d

3 WHERE NOT d.dcode IN (SELECT y.dcode

4\* FROM Secretary y)

SQL> /

DNAME

------------------------------------------------------------

Art

Chemistry

Mathematics

Political Science

SQL> INSERT INTO Secretary VALUES (NULL, 'Brenda');

1 row created.

SQL> @q77a

SELECT d.dname

FROM Department d

WHERE d.dcode IN (SELECT y.dcode

FROM Secretary y)

/

DNAME

------------------------------------------------------------

Accounting

Computer Science

English

SQL> @q77b

SELECT d.dname

FROM Department d

WHERE NOT d.dcode IN (SELECT y.dcode

FROM Secretary y)

/

no rows selected

SQL> @q77b

SELECT d.dname

FROM Department d

WHERE NOT d.dcode IN (SELECT y.dcode

FROM Secretary y

WHERE y.dcode IS NOT NULL)

/

DNAME

------------------------------------------------------------

Art

Chemistry

Mathematics

Political Science

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EX8\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> edit

Wrote file afiedt.buf

1 SELECT c.course\_name

2 FROM Course c, Section t

3 WHERE c.course\_number = t.course\_num

4 AND t.semester LIKE '%FALL%'

5 AND t.section\_id IN (SELECT t.section\_id

6 FROM Section t, Room r

7 WHERE (t.bldg = r.bldg AND t.room = r.room)

8 AND r.capacity > (SELECT AVG(r.capacity)

9\* FROM Room r))

SQL> /

COURSE\_NAME

------------------------------------------------------------

FUND. TECH. WRITING

WRITING FOR NON MAJO

ENGLISH COMP I

INTRO TO CHEMISTRY

FUND. TECH. WRITING

ENGLISH COMP I

6 rows selected.