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COP4710 Database Systems

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

SQL> CREATE TABLE Table1 (A CHAR(2), B CHAR(2));

Table created.

SQL> CREATE TABLE Table2 (A CHAR(2), B CHAR(2), C VARCHAR2(2), D VARCHAR2(3));

Table created.

SQL> INSERT INTO Table1

2 VALUES ('x1', 'x2');

1 row created.

SQL> INSERT INTO Table1

2 VALUES ('r1', 's1');

1 row created.

SQL> INSERT INTO Table2

2 VALUES ('x2', 'y2', 'z2', 'w2');

1 row created.

SQL> INSERT INTO Table2

2 VALUES ('r2', 's2', 'T2', 'u2');

1 row created.

SQL> SELECT \* FROM Table1 UNION SELECT \* FROM Table2;

SELECT \* FROM Table1 UNION SELECT \* FROM Table2

\*

ERROR at line 1:

ORA-01789: query block has incorrect number of result columns

SQL> edit

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1\* SELECT \* FROM Table1 UNION SELECT \* FROM Table2

SQL> define\_editor = vi

SQL> edit

Wrote file afiedt.buf

1\* SELECT \* FROM Table1 UNION SELECT A, B FROM Table2

SQL> /

A B

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

r1 s1

r2 s2

x1 x2

x2 y2

SQL> edit

Wrote file afiedt.buf

1\* SELECT \* FROM Table1 UNION SELECT B, A FROM Table2

SQL> /

A B

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

r1 s1

s2 r2

x1 x2

y2 x2

SQL> edit

Wrote file afiedt.buf

1\* SELECT \* FROM Table1 UNION SELECT A, C FROM Table2

SQL> /

A B

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

r1 s1

r2 T2

x1 x2

x2 z2

SQL> edit

Wrote file afiedt.buf

1\* SELECT \* FROM Table1 UNION SELECT A, D FROM Table2

SQL> /

A B

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

r1 s1

r2 u2

x1 x2

x2 w2

SQL> edit

Wrote file afiedt.buf

1\* SELECT \* FROM Table1 UNION SELECT B, A FROM Table1

SQL> /

A B

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

r1 s1

s1 r1

x1 x2

x2 x1

SQL> CREATE OR REPLACE VIEW viewx AS

2 SELECT A, B FROM Table2;

View created.

SQL> SELECT \* FORM Table1 UNION SELECT \* FROM viewx;

SELECT \* FORM Table1 UNION SELECT \* FROM viewx

\*

ERROR at line 1:

ORA-00923: FROM keyword not found where expected

SQL> edit

Wrote file afiedt.buf

1\* SELECT \* FROM Table1 UNION SELECT \* FROM viewx

SQL> /

A B

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

r1 s1

r2 s2

x1 x2

x2 y2

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

SQL> edit Q62

1 SELECT s.sname, s.class, t.course\_num

2 FROM Student s, Section t, Grade g

3 WHERE s.stno = g.student\_number

4\* AND g.section\_Id = t.section\_Id

SQL> edit Q62

1 SELECT s.sname, s.class, t.course\_num

2 FROM Student s, Section t, Grade g

3 WHERE s.stno = g.student\_number

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

5 AND NOT s.class IN(2)

6 SELECT s.sname, s.class, t.course\_num

7 FROM Student s, Section t, Grade g

8\* WHERE s.class = 2

SQL> edit Q62

1 SELECT s.sname, s.class, t.course\_num

2 FROM Student s, Section t, Grade g

3 WHERE s.stno = g.student\_number

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

5 MINUS

6 SELECT s.sname, s.class, t.course\_num

7 FROM Student s, Section t, Grade g

8\* WHERE s.class = 2

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

SQL> edit

Wrote file afiedt.buf

1 SELECT s.sname, g.grade, t.course\_num

2 FROM Student s, Section t, Grade g

3 WHERE s.stno = g.student\_number

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

5 AND g.grade = 'A'

6 AND (t.course\_num = 'MATH\_\_\_\_'

7\* OR t.course\_num = 'COSC\_\_\_\_')

SQL> /

no rows selected

SQL> edit

Wrote file afiedt.buf

1 SELECT s.sname, g.grade, t.course\_num

2 FROM Student s, Section t, Grade g

3 WHERE s.stno = g.student\_number

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

5 AND g.grade = 'A'

6 AND t.course\_num = 'MATH\_\_\_\_'

7 UNION

8 SELECT s.sname, g.grade, t.course\_num

9 FROM Student s, Section t, Grade g

10 WHERE s.stno = g.student\_number

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

12 AND g.grade = 'A'

13\* AND t.course\_num = 'COSC\_\_\_\_'

SQL> /

no rows selected

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

SQL> edit

Wrote file afiedt.buf

1 SELECT s.sname, s.major

2 FROM Student s

3 WHERE s.stno IN

4 ( SELECT g.student\_number

5 FROM Grade g

6\* WHERE g.grade = 'C')

SQL> /

SNAME MAJOR

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

Zelda COSC

Ken POLY

Mario MATH

Brenda COSC

Richard ENGL

Reva MATH

Donald ACCT

Jake COSC

Susan ENGL

Monica MATH

Bill POLY

SNAME MAJOR

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

Sadie MATH

Jessica POLY

Steve ENGL

Alan COSC

Rachel ENGL

Smithly ENGL

Sebastian ACCT

Losmith CHEM

Genevieve UNKN

Thornton

Gus ART

SNAME MAJOR

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

Benny CHEM

Lionel

24 rows selected.

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

SQL> edit Q65a

1 SELECT s.stno, s.sname, t.course\_num, g.grade

2 FROM Student s, Section t, Grade g

3 WHERE s.stno = g.student\_number

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

5 AND t.course\_num LIKE 'COSC%'

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

SQL> @Q65a

STNO SNAME

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

COURSE\_NUM GRA

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

3 Mary

COSC3380 B

24 Chris

COSC3380 B

34 Lynette

COSC3380 B

STNO SNAME

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

COURSE\_NUM GRA

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

121 Hillary1

COSC3380 B

122 Phoebe

COSC3380 B

123 Holly

COSC3380 B

STNO SNAME

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

COURSE\_NUM GRA

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

129 Cedric

COSC3380 A

132 George

COSC3380 B

142 Jerry

COSC3380 A

STNO SNAME

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

COURSE\_NUM GRA

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

143 Cramer

COSC3380 B

144 Fraiser

COSC3380 B

146 Francis

COSC3380 B

STNO SNAME

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

COURSE\_NUM GRA

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

155 Lindsay

COSC3380 B

157 Stephanie

COSC3380 B

14 Lujack

COSC3701 A

STNO SNAME

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

COURSE\_NUM GRA

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

3 Mary

COSC3701 B

8 Brenda

COSC1310 A

15 Reva

COSC1310 B

STNO SNAME

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

COURSE\_NUM GRA

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

3 Mary

COSC1310 B

34 Lynette

COSC1310 A

49 Susan

COSC1310 A

STNO SNAME

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

COURSE\_NUM GRA

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

123 Holly

COSC1310 A

127 Steve

COSC1310 A

125 Sadie

COSC1310 A

STNO SNAME

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

COURSE\_NUM GRA

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

126 Jessica

COSC1310 A

24 Chris

COSC2025 B

3 Mary

COSC2025 B

STNO SNAME

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

COURSE\_NUM GRA

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

8 Brenda

COSC3320 B

19 Harley

COSC3320 B

14 Lujack

COSC3320 B

STNO SNAME

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

COURSE\_NUM GRA

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

15 Reva

COSC3320 B

2 Lineas

COSC3320 B

15 Reva

COSC1310 B

STNO SNAME

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

COURSE\_NUM GRA

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

14 Lujack

COSC1310 B

2 Lineas

COSC1310 B

35 rows selected.

SQL> edit Q65b

Wrote file afiedt.buf

1 SELECT s.stno, s.sname, t.course\_num, g.grade

2 FROM Student s, Section t, Grade g

3 WHERE s.stno = g.student\_number

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

5\* AND t.course\_num LIKE 'MATH%'

SQL> @Q65b

STNO SNAME

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

COURSE\_NUM GRA

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

2 Lineas

MATH2410 D

3 Mary

MATH2410 A

8 Brenda

MATH2410 A

STNO SNAME

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

COURSE\_NUM GRA

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

10 Richard

MATH2410

13 Kelly

MATH5501

13 Kelly

MATH2410 B

STNO SNAME

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

COURSE\_NUM GRA

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

14 Lujack

MATH2410 B

14 Lujack

MATH2410

15 Reva

MATH2410 C

STNO SNAME

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

COURSE\_NUM GRA

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

15 Reva

MATH2410 F

17 Elainie

MATH2410

19 Harley

MATH2410 D

STNO SNAME

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

COURSE\_NUM GRA

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

142 Jerry

MATH2333

143 Cramer

MATH2333

144 Fraiser

MATH2333

STNO SNAME

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

COURSE\_NUM GRA

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

145 Harrison

MATH2333

146 Francis

MATH2333

147 Smithly

MATH2333

STNO SNAME

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

COURSE\_NUM GRA

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

148 Sebastian

MATH2333

151 Losmith

MATH5501

153 Genevieve

MATH5501

STNO SNAME

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

COURSE\_NUM GRA

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

155 Lindsay

MATH5501

157 Stephanie

MATH5501

158 Thornton

MATH5501

STNO SNAME

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

COURSE\_NUM GRA

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

163 Lionel

MATH5501

161 Benny

MATH5501

160 Gus

MATH5501

27 rows selected.

SQL> CREATE OR REPLACE VIEW vq65a AS

2 @Q65a

View created.

SQL> CREATE OR REPLACE VIEW vq65b AS

2 @Q65b

View created.

SQL> SELECT COUNT(\*) FROM vq65a;

COUNT(\*)

----------

35

SQL> SELECT COUNT(\*) FROM vq65b;

COUNT(\*)

----------

27

SQL> edit

Wrote file afiedt.buf

1 SELECT stno

2 FROM vq65a

3 MINUS

4 SELECT stno

5\* FROM vq65b

SQL> /

STNO

----------

24

34

49

121

122

123

125

126

127

129

132

11 rows selected.

SQL> edit

Wrote file afiedt.buf

1 SELECT stno

2 FROM vq65b

3 MINUS

4 SELECT stno

5\* FROM vq65a

SQL> /

STNO

----------

10

13

17

145

147

148

151

153

158

160

161

STNO

----------

163

12 rows selected.

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

SQL> edit

Wrote file afiedt.buf

1\* CREATE TABLE R1 (name VARCHAR2(20), salary NUMBER(5))

SQL> /

Table created.

SQL> edit

Wrote file afiedt.buf

1\* CREATE TABLE R2 (salary NUMBER(5), name VARCHAR2(20))

SQL> /

Table created.

SQL> INSERT INTO R1 VALUES ('Roger', 200);

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO R1 VALUES ('Matt', 200)

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO R1 VALUES ('Christ', 200)

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO R2 VALUES (550, 'Jesus')

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO R2 VALUES (550, 'Klein')

SQL> /

1 row created.

SQL> edit

Wrote file afiedt.buf

1\* INSERT INTO R2 VALUES (550, 'Joseph')

SQL> /

1 row created.

SQL> SELECT \* FROM R1 UNION SELECT \* FROM R2;

SELECT \* FROM R1 UNION SELECT \* FROM R2

\*

ERROR at line 1:

ORA-01790: expression must have same datatype as corresponding expression

SQL> SELECT \* FROM R1 UNION SELECT name, salary FROM R2;

NAME SALARY

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

Christ 200

Jesus 550

Joseph 550

Klein 550

Matt 200

Roger 200

6 rows selected.

SQL> DROP TABLE R1;

Table dropped.

SQL> DROP TABLE R2;

Table dropped.