SQL> SET FEEDBACK ON;

SQL> SET LINESIZE 120;

SQL> /\*

SQL> ------------------------------CREATED BY YOGESH JOG----------------------------

SQL> \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> AIM: TO DEMONSTRATE SQL QUERIES INVOLVING INSERTIONS, DELETIONS AND UPDATING IN A

SQL> MULTI-RELATION ENVIRONMENT.

SQL> \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> \*/

SQL> ------------------------------------ QUERY-01----------------------------------

SQL> SELECT (C.FNAME||' '||C.LNAME) NAME,I.INV\_NUM,I.INV\_DATE FROM INVOICE I

2 JOIN CUSTOMER C ON C.C\_CODE=I.C\_CODE WHERE FNAME LIKE 'Elena' OR FNAME LIKE 'Julia';

NAME INV\_NUM INV\_DATE

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

Elena Kurtis 1002 16-JAN-12

Elena Kurtis 1005 17-JAN-12

Julia Samuels 1007 17-JAN-12

Elena Kurtis 1008 17-JAN-12

4 rows selected.

SQL> ------------------------------------ QUERY-02----------------------------------

SQL> SELECT C.C\_CODE,C.C\_PHONE,(C.FNAME||' '||C.LNAME) NAME,I.INV\_DATE FROM CUSTOMER C

2 JOIN INVOICE I ON C.C\_CODE=I.C\_CODE WHERE C.BALANCE=0 ORDER BY I.INV\_DATE DESC ;

C\_CODE C\_PHONE NAME INV\_DATE

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

10011 2753455 Elena Kurtis 17-JAN-12

10015 2345432 Julia Samuels 17-JAN-12

10011 2753455 Elena Kurtis 17-JAN-12

10014 2455533 Bill Johnson 17-JAN-12

10011 2753455 Elena Kurtis 16-JAN-12

10014 2455533 Bill Johnson 16-JAN-12

6 rows selected.

SQL> ------------------------------------ QUERY-03----------------------------------

SQL> DELETE FROM VENDOR WHERE V\_CODE=21344;

0 rows deleted.

SQL> ALTER TABLE PRODUCT DROP CONSTRAINT PRODUCT\_FK\_V\_CODE;

Table altered.

SQL> ALTER TABLE PRODUCT ADD CONSTRAINT PRODUCT\_FK\_V\_CODE FOREIGN KEY (V\_CODE) REFERENCES VENDOR(V\_CODE) ON DELETE SET NULL;

Table altered.

SQL> DELETE FROM VENDOR WHERE V\_CODE=21344;

0 rows deleted.

SQL> ROLLBACK;

Rollback complete.

SQL> DELETE FROM VENDOR WHERE V\_CODE=21344;

0 rows deleted.

SQL> ------------------------------------ QUERY-04----------------------------------

SQL> SELECT CONSTRAINT\_NAME,CONSTRAINT\_TYPE,DELETE\_RULE,DEFERRED,DEFERRABLE FROM USER\_CONSTRAINTS WHERE CONSTRAINT\_TYPE='R';

CONSTRAINT\_NAME C DELETE\_RU DEFERRED DEFERRABLE

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

LINE\_FK\_P\_CODE R NO ACTION IMMEDIATE NOT DEFERRABLE

PRODUCT\_FK\_V\_CODE R SET NULL IMMEDIATE NOT DEFERRABLE

LINE\_FK\_INV\_NUM R NO ACTION IMMEDIATE NOT DEFERRABLE

INVOICE\_FK\_C\_CODE R NO ACTION IMMEDIATE NOT DEFERRABLE

4 rows selected.

SQL> SELECT CONSTRAINT\_NAME,CONSTRAINT\_TYPE,DELETE\_RULE,DEFERRED,DEFERRABLE FROM USER\_CONSTRAINTS

2 WHERE TABLE\_NAME IN('CUSTOMER','VENDOR','INVOICE','LINE','PRODUCT') ORDER BY TABLE\_NAME;

CONSTRAINT\_NAME C DELETE\_RU DEFERRED DEFERRABLE

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

SYS\_C007018 C IMMEDIATE NOT DEFERRABLE

CUSTOMER\_CHK\_C\_AREA C IMMEDIATE NOT DEFERRABLE

CUSTOMER\_CHK\_C\_CODE C IMMEDIATE NOT DEFERRABLE

SYS\_C007019 C IMMEDIATE NOT DEFERRABLE

CUSTOMER\_PK P IMMEDIATE NOT DEFERRABLE

SYS\_C007014 C IMMEDIATE NOT DEFERRABLE

SYS\_C007015 C IMMEDIATE NOT DEFERRABLE

SYS\_C007016 C IMMEDIATE NOT DEFERRABLE

SYS\_C007017 C IMMEDIATE NOT DEFERRABLE

SYS\_C007023 C IMMEDIATE NOT DEFERRABLE

INVOICE\_CHK\_INV\_NUM C IMMEDIATE NOT DEFERRABLE

CONSTRAINT\_NAME C DELETE\_RU DEFERRED DEFERRABLE

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

SYS\_C007024 C IMMEDIATE NOT DEFERRABLE

INVOICE\_FK\_C\_CODE R NO ACTION IMMEDIATE NOT DEFERRABLE

INVOICE\_PK P IMMEDIATE NOT DEFERRABLE

SYS\_C007049 C IMMEDIATE NOT DEFERRABLE

LINE\_PK P IMMEDIATE NOT DEFERRABLE

LINE\_FK\_INV\_NUM R NO ACTION IMMEDIATE NOT DEFERRABLE

LINE\_FK\_P\_CODE R NO ACTION IMMEDIATE NOT DEFERRABLE

SYS\_C007048 C IMMEDIATE NOT DEFERRABLE

LINE\_CHK\_L\_NUM C IMMEDIATE NOT DEFERRABLE

LINE\_CHK\_L\_UNITS C IMMEDIATE NOT DEFERRABLE

LINE\_CHK\_L\_PRICE C IMMEDIATE NOT DEFERRABLE

CONSTRAINT\_NAME C DELETE\_RU DEFERRED DEFERRABLE

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

SYS\_C007040 C IMMEDIATE NOT DEFERRABLE

PRODUCT\_CHK\_P\_MIN C IMMEDIATE NOT DEFERRABLE

SYS\_C007042 C IMMEDIATE NOT DEFERRABLE

SYS\_C007041 C IMMEDIATE NOT DEFERRABLE

SYS\_C007044 C IMMEDIATE NOT DEFERRABLE

SYS\_C007043 C IMMEDIATE NOT DEFERRABLE

PRODUCT\_PK P IMMEDIATE NOT DEFERRABLE

SYS\_C007039 C IMMEDIATE NOT DEFERRABLE

PRODUCT\_FK\_V\_CODE R SET NULL IMMEDIATE NOT DEFERRABLE

SYS\_C007034 C IMMEDIATE NOT DEFERRABLE

VENDOR\_CHK\_V\_CODE C IMMEDIATE NOT DEFERRABLE

CONSTRAINT\_NAME C DELETE\_RU DEFERRED DEFERRABLE

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

VENDOR\_CHK\_V\_AREA C IMMEDIATE NOT DEFERRABLE

VENDER\_PK P IMMEDIATE NOT DEFERRABLE

VENDOR\_CHK\_V\_STATE C IMMEDIATE NOT DEFERRABLE

SYS\_C007028 C IMMEDIATE NOT DEFERRABLE

SYS\_C007032 C IMMEDIATE NOT DEFERRABLE

SYS\_C007031 C IMMEDIATE NOT DEFERRABLE

SYS\_C007030 C IMMEDIATE NOT DEFERRABLE

SYS\_C007029 C IMMEDIATE NOT DEFERRABLE

SYS\_C007033 C IMMEDIATE NOT DEFERRABLE

42 rows selected.

SQL> ------------------------------------ QUERY-05----------------------------------

SQL> SELECT P.P\_CODE,P.V\_CODE,V.V\_NAME,P.DESCRIPT,V.V\_STATE,P.P\_DATE FROM PRODUCT P JOIN

2 VENDOR V ON V.V\_CODE=P.V\_CODE AND V.V\_STATE='TN';

P\_COD V\_CODE V\_NAME DESCRIPT V\_ P\_DATE

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

JB012 24288 Justin Stores Jigsaw 12in Blade TN 30-DEC-11

JB008 24288 Justin Stores Jigsaw 8in Blade TN 24-DEC-11

CH10X 21225 Bryson, Inc. Claw Hammer TN 20-JAN-12

HC100 24288 Justin Stores Hicut Chain Saw TN 07-FEB-12

MC001 21225 Bryson, Inc. Metal Screw TN 01-MAR-12

WC025 21231 GnB Supply 2.5in wide Screw TN 24-FEB-12

6 rows selected.

SQL> ------------------------------------ QUERY-06----------------------------------

SQL> SELECT I.C\_CODE,I.INV\_NUM,I.INV\_DATE,L.DESCRIPT,L.L\_UNITS,L.L\_PRICE FROM INVOICE I JOIN

2 (SELECT LINE.INV\_NUM,LINE.L\_PRICE,LINE.L\_UNITS,P.DESCRIPT FROM LINE JOIN(SELECT \* FROM PRODUCT)P ON LINE.P\_CODE=P.P\_CODE)L ON I.INV\_NUM=L.INV\_NUM ORDER BY I.INV\_DATE DESC,I.INV\_NUM ASC;

C\_CODE INV\_NUM INV\_DATE DESCRIPT L\_UNITS L\_PRICE

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

10020 1009 22-JUN-13 HANGING HOOK 15IN 20 5.5

10018 1004 17-JAN-12 Claw Hammer 2 9.95

10018 1004 17-JAN-12 Rat Tail File 3 4.99

10011 1005 17-JAN-12 PVC Pipe 12 5.87

10014 1006 17-JAN-12 Metal Screw 3 6.99

10014 1006 17-JAN-12 Jigsaw 12in Blade 1 109.92

10014 1006 17-JAN-12 Claw Hammer 1 9.95

10014 1006 17-JAN-12 Hicut Chain Saw 1 256.99

10015 1007 17-JAN-12 Rat Tail File 1 4.99

10015 1007 17-JAN-12 7.25in Saw Blade 2 14.99

10011 1008 17-JAN-12 PVC Pipe 5 5.87

C\_CODE INV\_NUM INV\_DATE DESCRIPT L\_UNITS L\_PRICE

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

10011 1008 17-JAN-12 Steel Malting Mesh 3 119.95

10011 1008 17-JAN-12 Claw Hammer 1 9.95

10014 1001 16-JAN-12 7.25in Saw Blade 1 14.99

10014 1001 16-JAN-12 Claw Hammer 1 9.95

10011 1002 16-JAN-12 Rat Tail File 2 4.99

10012 1003 16-JAN-12 Cordless Drill 1 38.95

10012 1003 16-JAN-12 Hrd. Cloth 1/4in 1 39.95

10012 1003 16-JAN-12 7.25in Saw Blade 5 14.99

19 rows selected.

SQL> ------------------------------------ QUERY-07----------------------------------

SQL> SELECT I.C\_CODE,I.INV\_NUM,L.DESCRIPT,(L.L\_UNITS\*L.L\_PRICE) SUBTOTAL FROM INVOICE I

2 JOIN (SELECT LINE.INV\_NUM,LINE.L\_PRICE,LINE.L\_UNITS,P.DESCRIPT FROM LINE

3 JOIN(SELECT \* FROM PRODUCT)P ON LINE.P\_CODE=P.P\_CODE)L ON I.INV\_NUM=L.INV\_NUM ORDER BY I.INV\_DATE DESC,I.INV\_NUM ASC;

C\_CODE INV\_NUM DESCRIPT SUBTOTAL

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

10020 1009 HANGING HOOK 15IN 110

10018 1004 Claw Hammer 19.9

10018 1004 Rat Tail File 14.97

10011 1005 PVC Pipe 70.44

10014 1006 Metal Screw 20.97

10014 1006 Jigsaw 12in Blade 109.92

10014 1006 Claw Hammer 9.95

10014 1006 Hicut Chain Saw 256.99

10015 1007 Rat Tail File 4.99

10015 1007 7.25in Saw Blade 29.98

10011 1008 PVC Pipe 29.35

C\_CODE INV\_NUM DESCRIPT SUBTOTAL

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

10011 1008 Steel Malting Mesh 359.85

10011 1008 Claw Hammer 9.95

10014 1001 7.25in Saw Blade 14.99

10014 1001 Claw Hammer 9.95

10011 1002 Rat Tail File 9.98

10012 1003 Cordless Drill 38.95

10012 1003 Hrd. Cloth 1/4in 39.95

10012 1003 7.25in Saw Blade 74.95

19 rows selected.

SQL> ------------------------------------ QUERY-08----------------------------------

SQL> SELECT LINE.INV\_NUM,LINE.L\_NUM,LINE.P\_CODE,LINE.L\_UNITS,LINE.L\_PRICE FROM LINE,INVOICE,PRODUCT

2 WHERE LINE.INV\_NUM=INVOICE.INV\_NUM AND LINE.P\_CODE=PRODUCT.P\_CODE AND INVOICE.INV\_DATE>PRODUCT.P\_DATE;

INV\_NUM L\_NUM P\_COD L\_UNITS L\_PRICE

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

1007 1 SB725 2 14.99

1003 3 SB725 5 14.99

1001 1 SB725 1 14.99

1003 2 CL025 1 39.95

1006 2 JB012 1 109.92

1007 2 RF100 1 4.99

1004 2 RF100 3 4.99

1002 1 RF100 2 4.99

1009 1 HH15X 20 5.5

9 rows selected.

SQL> ------------------------------------ QUERY-09----------------------------------

SQL> SELECT (C.FNAME||' '||C.LNAME)NAME,V.V\_CODE,V.V\_STATE FROM CUSTOMER C

2 JOIN VENDOR V ON C.C\_AREA=V.V\_AREA ORDER BY NAME;

NAME V\_CODE V\_

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

Anne Harris 24004 TN

Anne Harris 25501 TN

Anne Harris 24288 TN

Anne Harris 21231 TN

Anne Harris 21225 TN

Bill Johnson 24004 TN

Bill Johnson 25501 TN

Bill Johnson 21231 TN

Bill Johnson 24288 TN

Bill Johnson 21225 TN

Chris Paul 24004 TN

NAME V\_CODE V\_

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

Chris Paul 21231 TN

Chris Paul 24288 TN

Chris Paul 21225 TN

Chris Paul 25501 TN

GRACE DAWSON 21226 FL

GRACE DAWSON 25595 FL

GRACE DAWSON 24992 KY

GRACE DAWSON 25443 FL

Gustav Ford 25501 TN

Gustav Ford 24288 TN

Gustav Ford 24004 TN

NAME V\_CODE V\_

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

Gustav Ford 21225 TN

Gustav Ford 21231 TN

James Anderson 21225 TN

James Anderson 24288 TN

James Anderson 21231 TN

James Anderson 24004 TN

James Anderson 25501 TN

Kathy Smith 24288 TN

Kathy Smith 21231 TN

Kathy Smith 24004 TN

Kathy Smith 25501 TN

NAME V\_CODE V\_

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Kathy Smith 21225 TN

walter Green 21225 TN

walter Green 24004 TN

walter Green 21231 TN

walter Green 24288 TN

walter Green 25501 TN

39 rows selected.

SQL> ------------------------------------ QUERY-10----------------------------------

SQL> SELECT (C.FNAME||' '||C.LNAME)NAME,V.V\_CODE,V.V\_STATE,P.DESCRIPT FROM CUSTOMER C

2 JOIN VENDOR V ON C.C\_AREA=V.V\_AREA JOIN PRODUCT P ON V.V\_CODE=P.V\_CODE ORDER BY NAME;

NAME V\_CODE V\_ DESCRIPT

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

Anne Harris 24288 TN Jigsaw 8in Blade

Anne Harris 24288 TN Jigsaw 12in Blade

Anne Harris 21225 TN Claw Hammer

Anne Harris 24288 TN Hicut Chain Saw

Anne Harris 21225 TN Metal Screw

Anne Harris 21231 TN 2.5in wide Screw

Bill Johnson 24288 TN Jigsaw 8in Blade

Bill Johnson 24288 TN Jigsaw 12in Blade

Bill Johnson 21225 TN Claw Hammer

Bill Johnson 21231 TN 2.5in wide Screw

Bill Johnson 21225 TN Metal Screw

NAME V\_CODE V\_ DESCRIPT

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

Bill Johnson 24288 TN Hicut Chain Saw

Chris Paul 21231 TN 2.5in wide Screw

Chris Paul 21225 TN Metal Screw

Chris Paul 24288 TN Jigsaw 8in Blade

Chris Paul 21225 TN Claw Hammer

Chris Paul 24288 TN Hicut Chain Saw

Chris Paul 24288 TN Jigsaw 12in Blade

GRACE DAWSON 25595 FL Cordless Drill

GRACE DAWSON 25595 FL Power Painter

GRACE DAWSON 25595 FL Steel Malting Mesh

GRACE DAWSON 24992 KY HANGING HOOK 15IN

NAME V\_CODE V\_ DESCRIPT

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

Gustav Ford 24288 TN Hicut Chain Saw

Gustav Ford 21225 TN Metal Screw

Gustav Ford 21231 TN 2.5in wide Screw

Gustav Ford 24288 TN Jigsaw 12in Blade

Gustav Ford 24288 TN Jigsaw 8in Blade

Gustav Ford 21225 TN Claw Hammer

James Anderson 21231 TN 2.5in wide Screw

James Anderson 21225 TN Metal Screw

James Anderson 21225 TN Claw Hammer

James Anderson 24288 TN Jigsaw 8in Blade

James Anderson 24288 TN Jigsaw 12in Blade

NAME V\_CODE V\_ DESCRIPT

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

James Anderson 24288 TN Hicut Chain Saw

Kathy Smith 24288 TN Jigsaw 12in Blade

Kathy Smith 21225 TN Metal Screw

Kathy Smith 21231 TN 2.5in wide Screw

Kathy Smith 24288 TN Jigsaw 8in Blade

Kathy Smith 21225 TN Claw Hammer

Kathy Smith 24288 TN Hicut Chain Saw

walter Green 24288 TN Jigsaw 8in Blade

walter Green 24288 TN Jigsaw 12in Blade

walter Green 21225 TN Claw Hammer

walter Green 24288 TN Hicut Chain Saw

NAME V\_CODE V\_ DESCRIPT

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

walter Green 21225 TN Metal Screw

walter Green 21231 TN 2.5in wide Screw

46 rows selected.

SQL> ------------------------------END OF QUERIES-----------------------------------

SQL> ------------------------------CREATED BY YOGESH JOG----------------------------

SQL> SET FEEDBACK OFF;

SQL> SET ECHO OFF;