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**UCS1412 – DBMS Lab**

**Assignment – 4**

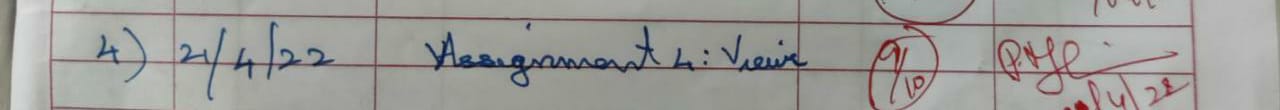
Name: Jayannthan P T

Dept: CSE ‘A’

Roll No.: 205001049

**Title:** Views

**Observation Correction:**



**Schema Diagram:**

|  |  |  |
| --- | --- | --- |
| Blue\_Flavor | | |
| Operation | Operation on View | Reflection in Base Table |
| Insert | **❌** | **✔** |
| Update | PID, FOOD, PRICE | PID, FOOD, PRICE |
| Modify | **✔** | **✔** |

|  |  |  |
| --- | --- | --- |
| Cheap\_Food | | |
| Operation | Operation on View | Reflection in Base Table |
| Insert | **✔** | **✔** |
| Update | PID, FLAVOR, FOOD, PRICE | PID, FLAVOR, FOOD, PRICE |
| Modify | **✔** | **✔** |

|  |  |  |
| --- | --- | --- |
| Hot\_Food | | |
| Operation | Operation on View | Reflection in Base Table |
| Insert | **❌** | **❌** |
| Update | **❌** | **❌** |
| Modify | **❌** | **❌** |

|  |  |  |
| --- | --- | --- |
| Pie\_Food | | |
| Operation | Operation on View | Reflection in Base Table |
| Insert | **❌** (non-key preserved table) | **❌** |
| Update | **✔** | **✔** (On ITEM\_LIST) |
| Modify | **✔** | **✔** |

|  |  |  |
| --- | --- | --- |
| Cheap\_View | | |
| Operation | Operation on View | Reflection in Base Table |
| Insert | **❌** (cannot insert without price) | **❌** |
| Update | PID, FLAVOR, FOOD | PID, FLAVOR, FOOD |
| Modify | **✔** | **✔** |

**Spool File:**

SQL> @Z:assn4\_views.sql

SQL> *-- Consider the schema used in the Assignment3.*

SQL>

SQL> *-- Create the following views and perform DML operations on it. Classify whether the view is updatable or not.*

SQL>

SQL> *-- 1. Create a view named Blue\_Flavor, which display the product details (product id,*

SQL> *-- food, price) of Blueberry flavor.*

SQL>

SQL> DROP VIEW Blue\_Flavor;

View dropped.

SQL> *-- Creating view*

SQL> CREATE VIEW Blue\_Flavor

  2  AS

  3    SELECT PID, FOOD, PRICE

  4    FROM PRODUCTS

  5    WHERE FLAVOR='Blueberry';

View created.

SQL>

SQL> *-- DESC Blue\_Flavor;*

SQL>

SQL> *--displaying items in Blue\_Flavor*

SQL> SELECT \*

  2  FROM Blue\_Flavor;

PID             FOOD                      PRICE

*--------------- -------------------- ----------*

90-BLU-11       Tart                       3.25

51-BLU          Danish                     1.15

SQL>

SQL> *--viewing the updatable columns in Blue\_Flavor*

SQL> SELECT COLUMN\_NAME, UPDATABLE

  2  FROM USER\_UPDATABLE\_COLUMNS

  3  WHERE

  4  TABLE\_NAME='BLUE\_FLAVOR';

COLUMN\_NAME                    UPD

*------------------------------ ---*

PID                            YES

FOOD                           YES

PRICE                          YES

SQL>

SQL> *--  CREATING A SAVEPOINT*

SQL> SAVEPOINT VIEW1;

Savepoint created.

SQL>

SQL> *--inserting a tuple in products with flavour="Blueberry"*

SQL> INSERT INTO PRODUCTS

  2  VALUES

  3    ('20-Ch', 'Blueberry', 'Chocolate', 15);

1 row created.

SQL>

SQL>

SQL> *--displaying items in Blue\_Flavor after adding tuple in products*

SQL> SELECT \*

  2  FROM Blue\_Flavor;

PID             FOOD                      PRICE

*--------------- -------------------- ----------*

90-BLU-11       Tart                       3.25

51-BLU          Danish                     1.15

20-Ch           Chocolate                    15

SQL>

SQL> *--updating a tuple in Blue\_Flavor*

SQL> UPDATE Blue\_Flavor

  2  SET PRICE=PRICE\*1.15

  3  WHERE PID='20-Ch';

1 row updated.

SQL>

SQL> *--displaying items in Blue\_Flavor after updating*

SQL> SELECT \*

  2  FROM Blue\_Flavor

  3  WHERE PID ='20-Ch';

PID             FOOD                      PRICE

*--------------- -------------------- ----------*

20-Ch           Chocolate                 17.25

SQL>

SQL> *--displaying items in base table after updating*

SQL> SELECT \*

  2  FROM PRODUCTS

  3  WHERE PID ='20-Ch';

PID             FLAVOR               FOOD                      PRICE

*--------------- -------------------- -------------------- ----------*

20-Ch           Blueberry            Chocolate                 17.25

SQL>

SQL>

SQL> *--deleting a tuple in Blue\_Flavor*

SQL> DELETE FROM Blue\_Flavor WHERE PID='20-Ch';

1 row deleted.

SQL>

SQL> *--displaying items in Blue\_Flavor after deleting*

SQL> SELECT \*

  2  FROM Blue\_Flavor

  3  WHERE PID ='20-Ch';

no rows selected

SQL>

SQL> *--displaying items in base table after deleting*

SQL> SELECT \*

  2  FROM PRODUCTS

  3  WHERE PID ='20-Ch';

no rows selected

SQL>

SQL> *--ROLLINGBACK TO SAVEPOINT*

SQL> ROLLBACK

  2  TO VIEW1;

Rollback complete.

SQL>

SQL> *--SAVING PROGRESS*

SQL> COMMIT;

Commit complete.

SQL>

SQL> *-- 2. Create a view named Cheap\_Food, which display the details (product id, flavor,*

SQL> *-- food, price) of products with price lesser than $1. Ensure that, the price of these*

SQL> *-- food(s) should never rise above $1 through view.*

SQL>

SQL> DROP VIEW Cheap\_Food;

View dropped.

SQL> *-- Creating view*

SQL> CREATE VIEW Cheap\_Food

  2  AS

  3    SELECT PID, FLAVOR, FOOD, PRICE

  4    FROM PRODUCTS

  5    WHERE PRICE < 1

  6  WITH **CHECK** OPTION;

View created.

SQL>

SQL> *-- DESC Cheap\_Food;*

SQL>

SQL> *-- Displaying the contents of the Cheap\_Food*

SQL> SELECT \*

  2  FROM Cheap\_Food;

PID             FLAVOR               FOOD                      PRICE

*--------------- -------------------- -------------------- ----------*

70-LEM          Lemon                Cookie                      .79

70-W            Walnut               Cookie                      .79

SQL>

SQL> *--viewing the updatable columns in Cheap\_Food*

SQL> SELECT COLUMN\_NAME, UPDATABLE

  2  FROM USER\_UPDATABLE\_COLUMNS

  3  WHERE

  4  TABLE\_NAME='CHEAP\_FOOD';

COLUMN\_NAME                    UPD

*------------------------------ ---*

PID                            YES

FLAVOR                         YES

FOOD                           YES

PRICE                          YES

SQL>

SQL> *--  CREATING A SAVEPOINT*

SQL> SAVEPOINT VIEW2;

Savepoint created.

SQL>

SQL>

SQL> *--inserting a tuple in Cheap\_Food*

SQL>

SQL> insert INTO Cheap\_Food

  2  values

  3    ('20-Ch1', 'Mango', 'Chocolate', 0.75);

1 row created.

SQL>

SQL>

SQL> *--inserting a tuple in Cheap\_Food with price>1*

SQL>

SQL> insert INTO Cheap\_Food

  2  values

  3    ('20-Ch2', 'Man', 'Choco', 1.75);

insert INTO Cheap\_Food

            \*

ERROR at **line** 1:

ORA-01402: view WITH **CHECK** OPTION where-clause violation

SQL>

SQL>

SQL> *--displaying items in Cheap\_Food after insertion*

SQL> SELECT \*

  2  FROM Cheap\_Food

  3  WHERE PID='20-Ch1';

PID             FLAVOR               FOOD                      PRICE

*--------------- -------------------- -------------------- ----------*

20-Ch1          Mango                Chocolate                   .75

SQL>

SQL> *--displaying items in base table after insertion*

SQL> SELECT \*

  2  FROM PRODUCTS

  3  WHERE PID='20-Ch1';

PID             FLAVOR               FOOD                      PRICE

*--------------- -------------------- -------------------- ----------*

20-Ch1          Mango                Chocolate                   .75

SQL>

SQL> *--updating a tuple in Cheap\_Food*

SQL> UPDATE Cheap\_Food

  2  SET PRICE=PRICE+0.1

  3  WHERE PID='20-Ch1';

1 row updated.

SQL>

SQL> *--displaying items in Cheap\_Food after updating*

SQL> SELECT \*

  2  FROM Cheap\_Food

  3  WHERE PID ='20-Ch1';

PID             FLAVOR               FOOD                      PRICE

*--------------- -------------------- -------------------- ----------*

20-Ch1          Mango                Chocolate                   .85

SQL>

SQL> *--displaying items in base table after updating*

SQL> SELECT \*

  2  FROM PRODUCTS

  3  WHERE PID='20-Ch1';

PID             FLAVOR               FOOD                      PRICE

*--------------- -------------------- -------------------- ----------*

20-Ch1          Mango                Chocolate                   .85

SQL>

SQL>

SQL> *--deleting a tuple in Cheap\_Food*

SQL> DELETE FROM Cheap\_Food WHERE PID='20-Ch1';

1 row deleted.

SQL>

SQL> *--displaying items in Cheap\_Food after deleting*

SQL> SELECT \*

  2  FROM Cheap\_Food

  3  WHERE PID ='20-Ch1';

no rows selected

SQL>

SQL>

SQL> *--displaying items in base table after deleting*

SQL> SELECT \*

  2  FROM PRODUCTS

  3  WHERE PID='20-Ch1';

no rows selected

SQL>

SQL>

SQL>

SQL>

SQL> *--ROLLINGBACK TO SAVEPOINT*

SQL> ROLLBACK

  2  TO VIEW2;

Rollback complete.

SQL>

SQL> *--SAVING PROGRESS*

SQL> COMMIT;

Commit complete.

SQL>

SQL> *-- 3. Create a view called Hot\_Food that show the product id and its quantity WHERE the*

SQL> *-- same product is ordered more than once in the same receipt.*

SQL>

SQL> DROP VIEW Hot\_Food;

View dropped.

SQL>

SQL> *-- Creating view*

SQL> CREATE VIEW Hot\_Food

  2  (

  3    pid,

  4    count

  5  )

  6  AS

  7    SELECT ITEM, COUNT(ITEM)

  8    FROM ITEM\_LIST

  9    GROUP BY RNO,ITEM

 10    HAVING COUNT(\*)>1;

View created.

SQL>

SQL>

SQL> *-- DESC Hot\_Food;*

SQL>

SQL> *--displaying items in Hot\_Food*

SQL> SELECT \*

  2  FROM Hot\_Food;

PID                  COUNT

*--------------- ----------*

70-R                     2

90-APR-PF                2

50-APP                   2

51-ATW                   2

90-ALM-I                 2

90-BER-11                2

90-PEC-11                2

70-M-CH-DZ               2

46-11                    2

70-M-CH-DZ               2

90-CHR-11                2

PID                  COUNT

*--------------- ----------*

90-BLU-11                2

50-CHS                   2

70-M-CH-DZ               2

70-R                     2

90-APP-11                2

70-MAR                   2

50-APR                   2

51-BC                    2

50-ALM                   2

20 rows selected.

SQL>

SQL> *--viewing the updatable columns in Hot\_Food*

SQL> SELECT COLUMN\_NAME, UPDATABLE

  2  FROM USER\_UPDATABLE\_COLUMNS

  3  WHERE

  4  TABLE\_NAME='HOT\_FOOD';

COLUMN\_NAME                    UPD

*------------------------------ ---*

PID                            NO

COUNT                          NO

SQL> *-- This table isnt updatable because we have used aggregate functions (group by class)*

SQL>

SQL>

SQL> *--  CREATING A SAVEPOINT*

SQL> SAVEPOINT VIEW3;

Savepoint created.

SQL>

SQL> *--inserting a tuple in Cheap\_Food*

SQL> INSERT INTO Hot\_Food

  2  VALUES('50-AB', 3);

INSERT INTO Hot\_Food

\*

ERROR at **line** 1:

ORA-01733: virtual column not allowed here

SQL>

SQL>

SQL> *-- updating item in Hot\_Food*

SQL> UPDATE Hot\_Food

  2  SET ITEM='54-SD9-34JS'

  3  WHERE ITEM='46-11';

WHERE ITEM='46-11'

      \*

ERROR at **line** 3:

ORA-00904: "ITEM": invalid identifier

SQL>

SQL> *--updating quantity in Hot\_Food*

SQL> UPDATE Hot\_Food

  2  SET QUANTITY=4

  3  WHERE ITEM='46-11';

WHERE ITEM='46-11'

      \*

ERROR at **line** 3:

ORA-00904: "ITEM": invalid identifier

SQL>

SQL> *--deleting a row in Hot\_Food*

SQL> DELETE FROM Hot\_Food WHERE ITEM='46-11';

DELETE FROM Hot\_Food WHERE ITEM='46-11'

                           \*

ERROR at **line** 1:

ORA-00904: "ITEM": invalid identifier

SQL>

SQL>

SQL> *-- making changes in base table to see reflection*

SQL> INSERT INTO PRODUCTS

  2  VALUES('9-B', 'ORANGE', 'JUICE', 9);

1 row created.

SQL> INSERT INTO RECEIPTS

  2  VALUES(12345, '9-JUN-22', 21);

1 row created.

SQL> INSERT INTO ITEM\_LIST

  2  VALUES(12345, 98, '9-B');

1 row created.

SQL> INSERT INTO ITEM\_LIST

  2  VALUES(12345, 99, '9-B');

1 row created.

SQL>

SQL> SELECT \*

  2  from Hot\_food;

PID                  COUNT

*--------------- ----------*

70-R                     2

90-APR-PF                2

50-APP                   2

51-ATW                   2

90-ALM-I                 2

90-BER-11                2

90-PEC-11                2

70-M-CH-DZ               2

46-11                    2

70-M-CH-DZ               2

90-CHR-11                2

PID                  COUNT

*--------------- ----------*

90-BLU-11                2

9-B                      2

50-CHS                   2

70-M-CH-DZ               2

70-R                     2

90-APP-11                2

70-MAR                   2

50-APR                   2

51-BC                    2

50-ALM                   2

21 rows selected.

SQL> *-- note the changes in counts*

SQL> *-- making changes in the base table reflects in the view but not vice versa*

SQL>

SQL> *--ROLLINGBACK TO SAVEPOINT*

SQL> ROLLBACK

  2  TO VIEW3;

Rollback complete.

SQL>

SQL> *--SAVING PROGRESS*

SQL> COMMIT;

Commit complete.

SQL>

SQL>

SQL> *-- 4. Create a view named Pie\_Food that will display the details (customer lname, flavor,*

SQL> *-- receipt number and date, ordinal) who had ordered the Pie food with receipt details.*

SQL>

SQL> DROP VIEW Pie\_Food;

View dropped.

SQL>

SQL> *-- Creating view*

SQL> CREATE VIEW Pie\_Food

  2  AS

  3    SELECT LNAME, FLAVOR, I.RNO, RDATE, ORDINAL

  4    FROM CUSTOMERS C, RECEIPTS R, ITEM\_LIST I, PRODUCTS P

  5    WHERE C.CID=R.CID AND R.RNO=I.RNO AND I.ITEM=P.PID AND FOOD='Pie';

View created.

SQL>

SQL> *--displaying items in Pie\_Food*

SQL> SELECT \*

  2  FROM Pie\_Food;

LNAME                          FLAVOR                      RNO RDATE

*------------------------------ -------------------- ---------- ---------*

   ORDINAL

*----------*

JULIET                         Apple                     39685 28-OCT-07

         4

JULIET                         Apple                     66227 10-OCT-07

         2

TRAVIS                         Apple                     48647 09-OCT-07

         2

LNAME                          FLAVOR                      RNO RDATE

*------------------------------ -------------------- ---------- ---------*

   ORDINAL

*----------*

JOSETTE                        Apple                     87454 21-OCT-07

         1

JOSETTE                        Apple                     47353 12-OCT-07

         2

RUPERT                         Apple                     53376 30-OCT-07

         3

LNAME                          FLAVOR                      RNO RDATE

*------------------------------ -------------------- ---------- ---------*

   ORDINAL

*----------*

CUC                            Apple                     50660 18-OCT-07

         2

KIP                            Apple                     11548 21-OCT-07

         2

RAYFORD                        Apple                     29226 26-OCT-07

         2

LNAME                          FLAVOR                      RNO RDATE

*------------------------------ -------------------- ---------- ---------*

   ORDINAL

*----------*

RAYFORD                        Apple                     51991 17-OCT-07

         1

ARIANE                         Apple                     39109 02-OCT-07

         1

ARIANE                         Apple                     44798 04-OCT-07

         3

LNAME                          FLAVOR                      RNO RDATE

*------------------------------ -------------------- ---------- ---------*

   ORDINAL

*----------*

CHARLENE                       Apple                     98806 15-OCT-07

         3

13 rows selected.

SQL>

SQL> *--viewing the updatable columns in Pie\_Food*

SQL> SELECT COLUMN\_NAME, UPDATABLE

  2  FROM USER\_UPDATABLE\_COLUMNS

  3  WHERE

  4  TABLE\_NAME='PIE\_FOOD';

COLUMN\_NAME                    UPD

*------------------------------ ---*

LNAME                          NO

FLAVOR                         NO

RNO                            YES

RDATE                          NO

ORDINAL                        YES

SQL>

SQL> *-- THIS VIEW ISNT UPDATABLE BECAUSE WE HAVE JOINED MULTIPLE TABLE AND THE NOT NULL COLUMNS FROM PRODUCTS , CUSTOMERS (PK) ARENT A PART OF THE VIEW*

SQL>

SQL> *--  CREATING A SAVEPOINT*

SQL> SAVEPOINT VIEW4;

Savepoint created.

SQL>

SQL>

SQL> *--inserting a tuple in Pie\_Food*

SQL> INSERT INTO Pie\_Food

  2  VALUES('Tony', 'Blueberry', 51991, '9-Jun-21', 98);

INSERT INTO Pie\_Food

\*

ERROR at **line** 1:

ORA-01779: cannot modify a column which maps to a non key-preserved table

SQL>

SQL>

SQL> *--displaying items in Pie\_Food after inserting*

SQL> SELECT \*

  2  FROM Pie\_Food

  3  WHERE LNAME='Steve';

no rows selected

SQL>

SQL>

SQL> *--displaying items in base table after inserting*

SQL> SELECT LNAME, FLAVOR, R.RNO, RDATE, ORDINAL

  2  FROM CUSTOMERS C, RECEIPTS R, ITEM\_LIST I, PRODUCTS P

  3  WHERE C.CID=R.CID AND R.RNO=I.RNO AND I.ITEM=P.PID AND FOOD='Pie' AND LNAME='Tony';

no rows selected

SQL>

SQL>

SQL> *--updating a tuple in Pie\_Food*

SQL> UPDATE Pie\_Food SET LNAME='Steve' WHERE RNO=51991;

UPDATE Pie\_Food SET LNAME='Steve' WHERE RNO=51991

                    \*

ERROR at **line** 1:

ORA-01779: cannot modify a column which maps to a non key-preserved table

SQL>

SQL> *-- updating RNO*

SQL> UPDATE Pie\_Food SET RNO=51991 WHERE LNAME='Steve';

UPDATE Pie\_Food SET RNO=51991 WHERE LNAME='Steve'

                    \*

ERROR at **line** 1:

ORA-01779: cannot modify a column which maps to a non key-preserved table

SQL>

SQL> *-- updating ORDINAL*

SQL> UPDATE Pie\_Food SET ORDINAL=99 WHERE LNAME='Steve';

0 rows updated.

SQL>

SQL> *-- updating FLAVOUR*

SQL> UPDATE Pie\_Food SET FLAVOR='NEW\_FLAVOUR' WHERE LNAME='Steve';

UPDATE Pie\_Food SET FLAVOR='NEW\_FLAVOUR' WHERE LNAME='Steve'

                    \*

ERROR at **line** 1:

ORA-01779: cannot modify a column which maps to a non key-preserved table

SQL>

SQL>

SQL> *--displaying items in Pie\_Food after updating*

SQL>

SQL> SELECT \*

  2  from Pie\_Food

  3  WHERE LNAME='Steve';

no rows selected

SQL>

SQL> *--displaying items in base table after updating*

SQL> SELECT LNAME, FLAVOR, R.RNO, RDATE, ORDINAL

  2  FROM CUSTOMERS C, RECEIPTS R, ITEM\_LIST I, PRODUCTS P

  3  WHERE C.CID=R.CID AND R.RNO=I.RNO AND I.ITEM=P.PID AND FOOD='Pie' AND LNAME='Steve';

no rows selected

SQL>

SQL> *-- deleting a tuple in view*

SQL> SELECT \*

  2  FROM Pie\_Food

  3  WHERE LNAME='Steve';

no rows selected

SQL>

SQL> *--displaying items in Pie\_Food after deleting*

SQL>

SQL> SELECT \*

  2  from Pie\_Food

  3  WHERE LNAME='Steve';

no rows selected

SQL>

SQL> *--displaying items in base table after deleting*

SQL> SELECT LNAME, FLAVOR, R.RNO, RDATE, ORDINAL

  2  FROM CUSTOMERS C, RECEIPTS R, ITEM\_LIST I, PRODUCTS P

  3  WHERE C.CID=R.CID AND R.RNO=I.RNO AND I.ITEM=P.PID AND FOOD='Pie' AND LNAME='Steve';

no rows selected

SQL>

SQL>

SQL> *--ROLLINGBACK TO SAVEPOINT*

SQL> ROLLBACK

  2  TO VIEW4;

Rollback complete.

SQL>

SQL> *--SAVING PROGRESS*

SQL> COMMIT;

Commit complete.

SQL>

SQL> *-- 5. Create a view Cheap\_View from Cheap\_Food that shows only the product id, flavor*

SQL> *-- and food.*

SQL>

SQL> *-- Creating view*

SQL> CREATE VIEW Cheap\_View

  2  AS

  3    SELECT PID, FLAVOR, FOOD

  4    FROM CHEAP\_FOOD;

View created.

SQL>

SQL> *--displaying items in Cheap\_View*

SQL> SELECT \*

  2  FROM Cheap\_View;

PID             FLAVOR               FOOD

*--------------- -------------------- --------------------*

70-LEM          Lemon                Cookie

70-W            Walnut               Cookie

SQL>

SQL> *--viewing the updatable columns in Cheap\_View*

SQL> SELECT COLUMN\_NAME, UPDATABLE

  2  FROM USER\_UPDATABLE\_COLUMNS

  3  WHERE

  4  TABLE\_NAME='CHEAP\_VIEW';

COLUMN\_NAME                    UPD

*------------------------------ ---*

PID                            YES

FLAVOR                         YES

FOOD                           YES

SQL>

SQL>

SQL> *--  CREATING A SAVEPOINT*

SQL> SAVEPOINT NEW\_VIEW;

Savepoint created.

SQL>

SQL> *--inserting a tuple in Cheap\_View*

SQL> insert INTO Cheap\_food

  2  VALUES('20-Ch', 'Mango', 'Chocolate');

insert INTO Cheap\_food

            \*

ERROR at **line** 1:

ORA-00947: not enough values

SQL>

SQL> *--displaying items in Cheap\_View after inserting*

SQL> SELECT \*

  2  from Cheap\_View

  3  WHERE PID='20-Ch';

no rows selected

SQL>

SQL> *--displaying items in Cheap\_Food after inserting*

SQL> SELECT \*

  2  from Cheap\_Food

  3  WHERE PID='20-Ch';

no rows selected

SQL>

SQL> *--updating a tuple in Pie\_Food*

SQL>

SQL> UPDATE Cheap\_View SET PID='20-Ch1' WHERE PID='20-Ch';

0 rows updated.

SQL> UPDATE Cheap\_View SET FLAVOR='NEW\_FLAVOUR' WHERE PID='20-Ch1';

0 rows updated.

SQL> UPDATE Cheap\_View SET FOOD='New\_Food' WHERE PID='20-Ch1';

0 rows updated.

SQL>

SQL> *--displaying items in Cheap\_View after updating*

SQL> SELECT \*

  2  from Cheap\_View

  3  WHERE PID='20-Ch1';

no rows selected

SQL>

SQL> *--displaying items in Cheap\_Food after updating*

SQL> SELECT \*

  2  from Cheap\_Food

  3  WHERE PID='20-Ch1';

no rows selected

SQL>

SQL>

SQL> DELETE FROM Cheap\_View WHERE PID='20-Ch1';

0 rows deleted.

SQL> DELETE FROM Cheap\_View WHERE FOOD='New\_Food';

0 rows deleted.

SQL>

SQL>

SQL> *--displaying items in Cheap\_View after deleting*

SQL> SELECT \*

  2  from Cheap\_View

  3  WHERE PID='20-Ch1';

no rows selected

SQL>

SQL> *--displaying items in Cheap\_Food after deleting*

SQL> SELECT \*

  2  from Cheap\_Food

  3  WHERE PID='20-Ch1';

no rows selected

SQL>

SQL>

SQL> *--ROLLINGBACK TO SAVEPOINT*

SQL> ROLLBACK

  2  TO NEW\_VIEW;

Rollback complete.

SQL>

SQL> *--SAVING PROGRESS*

SQL> COMMIT;

Commit complete.

SQL>

SQL>

SQL>

SQL> *-- 6. Drop the view Cheap\_View*

SQL>

SQL> DROP VIEW Cheap\_View;

View dropped.

SQL>

SQL> spool off;