VIEWS AND INDEX

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CREATE VIEW USING WHERE

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1)CREATE A VIEW FROM TABLE GIFTCARD WITH FIELD GID,GVALID AND ID SHOULD BE GREATER THAN 550.

SQL COMMAND:

CREATE VIEW GIFTCARDVIEW AS SELECT GID,GVALID FROM GIFTCARD WHERE GID>550;

View created.

SQL> SELECT * FROM GIFTCARDVIEW;

OUTPUT:

```
    GID GVALID
---------- ---------
    555 01-JAN-00
    590 02-MAY-40
    900 09-JAN-90
```

2)CREATE A VIEW FOR THE TABLE CREDITCARD WITH FIELD WITH CID,TYPE WHOSE ISERID IS GREATER THAN THE 320.

SQL COMMAND:

CREATE VIEW CVIEW AS SELECT CID,TYPE FROM CREDITCARD WHERE USERID>320;

View created.

SQL> SELECT * FROM CVIEW;

OUTPUT:

```
     CID TYPE
---------- -----------------------------
   29450 TRAVEL
   29780 STUDENT
   11780 BUSINESS
```

3)CREATE A VIEW USING 2 TABLES.

SQL> CREATE VIEW UVIEW AS SELECT USER1.USERID,NAME,ADDRESS,PHONENO,CID,CVV FROM USER1,CREDITCARD WHERE USER1.USERID=CREDITCARD.USERID;
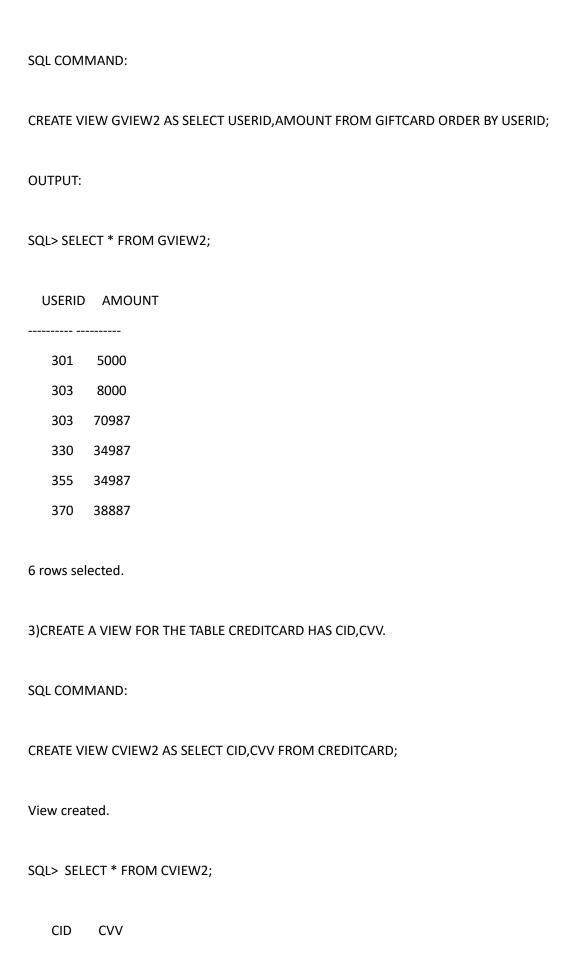
View created.

SQL> SELECT * FROM UVIEW;

```
   USERID NAME            ADDRESS                    PHONENO    CID      CVV
---------- ------------------ -------------------------------------- ---------- ---------- ----------
     303 SURESH         KARUR                   9098751231 291726    100001
     301 SRI            MADURAI                 9087654341  29139     65453
     355 ABI            DPI                9800003217   311     50000
     302 BALA           SALEM                   9098754321  29000     11000
     370 VICKY          HARUR                   9990003217  29780    100001
```

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CREATING VIEW BY USING ORDER BY CLAUSE

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1)CREATE A VIEW FOR THE TABLE USER1 HAS USERID,NAME,ADDRESS THAT MUST BE ORDER BY THE ADDRESS.

SQL COMMAND:

 CREATE VIEW USEVIEW AS SELECT USERID,NAME,ADDRESS FROM USER1 ORDER BY ADDRESS;

View created.

SQL> SELECT * FROM USEVIEW;

```
    USERID NAME            ADDRESS
---------- ------------------ -------------------------------------
       330 PRABU           CHENNAI
       355 ABI             DPI
       370 VICKY           HARUR
       303 SURESH          KARUR
       301 SRI             MADURAI
       302 BALA            SALEM
```

6 rows selected.

2)CREATE A VIEW FOR THE TABLE GIFTCARD HAS USERID,AMOUNT THAT MUST BE ORDER BY USERID.

SQL COMMAND:

CREATE VIEW GVIEW2 AS SELECT USERID,AMOUNT FROM GIFTCARD ORDER BY USERID;

OUTPUT:

SQL> SELECT * FROM GVIEW2;

```
  USERID    AMOUNT
---------- ----------
     301     5000
     303      8000
     303    70987
     330    34987
     355    34987
     370    38887
```

6 rows selected.

3)CREATE A VIEW FOR THE TABLE CREDITCARD HAS CID,CVV.

SQL COMMAND:

CREATE VIEW CVIEW2 AS SELECT CID,CVV FROM CREDITCARD;

View created.

SQL> SELECT * FROM CVIEW2;

```
    CID      CVV
```

```
---------- ----------
   291726    100001
    29139     65453
      311     50000
    29000     11000
    29780    100001
    11780     88253
```

6 rows selected.

===
===

CREATE VIEW WITH CONSTRAINT

=========================

1)CREATE A VIEW WITH USERID,NAME AND GID,AMOUT WHICH USER HAS GIFTCARD.

 CREATE VIEW USERVIEW2 AS SELECT
USER1.USERID,USER1.NAME,GIFTCARD.GID,GIFTCARD.AMOUNT FROM USER1,GIFTCARD WHERE
USER1.USERID=GIFTCARD.USERID;

View created.

SQL> SELECT * FROM USERVIEW2;

SELECT * FROM USERVIEW2;


```
   USERID NAME              GID    AMOUNT GVALID
---------- -------------------- ---------- ---------- ---------
      301 SRI               570      5000 07-FEB-30
```

303	SURESH	590	8000	04-APR-30
303	SURESH	540	70987	09-MAY-80
330	PRABU	541	34987	07-APR-50
355	ABI	548	34987	07-JAN-50
370	VICKY	530	38887	04-DEC-90

6 rows selected.

==

REPLACING VIEW WITH CONSTRAINT

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1.ADD THE GVALID TO THE GIFTCARD IN USERVIEW2.

 CREATE OR REPLACE VIEW USERVIEW2 AS SELECT
USER1.USERID,USER1.NAME,GIFTCARD.GID,GIFTCARD.AMOUNT,GIFTCARD.GVALID FROM
USER1,GIFTCARD WHERE USER1.USERID=GIFTCARD.USERID;

View created.

SQL> SELECT * FROM USERVIEW2;

USERID	NAME	GID	AMOUNT	GVALID
301	SRI	570	5000	07-FEB-30
303	SURESH	590	8000	04-APR-30
303	SURESH	540	70987	09-MAY-80
330	PRABU	541	34987	07-APR-50
355	ABI	548	34987	07-JAN-50
370	VICKY	530	38887	04-DEC-90

6 rows selected.

==

INSERTING VALUES INTO THE VIEW

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1)INSERT THE VALUES VIEW OF USER1(340,JENI,VELLORE).

SQL COMMAND:

 INSERT INTO USEVIEW VALUES(340,'JENI','VELLORE');

1 row created.

SQL> SELECT * FROM USER1;

OUTPUT:

USERID NAME	PHONENO MAIL	ADHAARID	LICENCENO	TID ADDRESS
301 SRI	9087654341 sri@gmail.com	2838501	34678262	102 MADURAI
302 BALA	9098754321 bala@gmail.com	6578432	45367892	105 SALEM
303 SURESH	9098751231 suresh@gmail.com	4587234	23676459	104 KARUR
355 ABI	9800003217 abi@gmail.com	2815099	67312653	109 DPI
370 VICKY	9990003217 vicky@gmail.com	2815067	54231755	108 HARUR
330 PRABU	9991103217 prabu@gmail.com	2812367	87242751	107 CHENNAI
340 JENI				VELLORE

7 rows selected.

2)INSERT THE VALUES INTO VIEW OF CREDITCARD(313,90000)

SQL COMMAND:

 INSERT INTO CVIEW2 VALUES(313,90000);

1 row created.

SQL> SELECT * FROM CREDITCARD;

CID	CVV	USERID	TYPE
291726	100001	303	TRAVEL
29139	65453	301	STUDENT
311	50000	355	STUDENT
29000	11000	302	BUSINESS
313	90000		
29780	100001	370	STUDENT

6 rows selected.

==

CANNOT INSERT TO THE VIEW WITHOUT PRIMARY KEY

==

1) SQL> INSERT INTO USEVIEW (USERID,NAME,ADDRESS) VALUES (NULL,'ARUL','HYDRABAD');
INSERT INTO USEVIEW (USERID,NAME,ADDRESS) VALUES (NULL,'ARUL','HYDRABAD')

*

ERROR at line 1:

ORA-01400: cannot insert NULL into ("C##21BCS048"."USER1"."USERID")

2)SQL> INSERT INTO CVIEW2 (CID,CVV) VALUES (NULL,4566);

INSERT INTO CVIEW2 (CID,CVV) VALUES (NULL,4566)
                        *

ERROR at line 1:

ORA-01400: cannot insert NULL into ("C##21BCS048"."CREDITCARD"."CID")

==

                        UPDATE VIEW

                        ==========

1)UPDATE THE VALUES OF CVIEW SET CID AS 305 WHERE THE TYPE IS TRAVEL.

SQL COMMAND:

UPDATE CVIEW SET CID=305 WHERE TYPE='BUSINESS';

1 row updated.

SQL>SELECT *FROM CREDITCARD;

OUTPUT:

SQL> SELECT *FROM CREDITCARD;

```
    CID        CVV    USERID TYPE

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

   291726    100001       303 TRAVEL

    29139     65453       301 STUDENT

      311     50000       355 STUDENT

    29000     11000       302 BUSINESS

    29780    100001       370 STUDENT

      305     88253       330 BUSINESS


6 rows selected.


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                      DELETING VALUES FROM VIEW

                      =========================


1)DELETE THE INFORMATION OF USERID 330 IN GVIEW2.


SQL COMMAND:


 DELETE FROM GVIEW2 WHERE USERID=330;


1 row deleted.


SQL> SELECT * FROM GIFTCARD;


    GID     USERID    AMOUNT GVALID

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

      570      301      5000 07-FEB-30

      590      303      8000 04-APR-30
```

540	303	70987 09-MAY-80
548	355	34987 07-JAN-50
530	370	38887 04-DEC-90

2)DELETE THE INFORMATION OF CID=305 IN CVIEW.

SQL COMMAND:

DELETE FROM CVIEW WHERE CID=305;

1 row deleted.

SQL> SELECT * FROM CREDITCARD;

OUTPUT:

CID	CVV	USERID TYPE
291726	100001	303 TRAVEL
29139	65453	301 STUDENT
311	50000	355 STUDENT
29000	11000	302 BUSINESS
29780	100001	370 STUDENT

==

DROPPING VIEW

=============

1) DELETE THE USEVIEW.

SQL COMMAND:

 DROP VIEW USEVIEW;

View dropped.

2)DELETE THE CVIEW.

SQL COMMAND:

 DROP VIEW CVIEW;

View dropped.

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CREATE INDEX

============
1)CREATE A INDEX FOR THE TABLE USER1 BY KEEPING ADDRESS AS INDEX.

SQL COMMAND:

 CREATE INDEX USERINDEX ON USER1(ADDRESS);

Index created.

2)CREATE INDEX FOR THE TABLE GIFTCARD BY KEEPING GVALID AS INDEX.

SQL COMMAND:

CREATE INDEX GINDEX ON GIFTCARD(GVALID);

Index created.

3)CREATE A INDEX WITH 2 COLUMN.

SQL> CREATE INDEX CRINDEX ON GIFTCARD(GID,AMOUNT);

Index created.

==

INDEX RENAMING

==============

1)RENAME THE GINDEX AS GIFINDEX.

SQL COMMAND:

ALTER INDEX GINDEX RENAME TO GIFINDEX;

Index altered.

2)RENAME THE USERINDEX AS UINDEX.

SQL COMMAND:

ALTER INDEX USERINDEX RENAME TO UINDEX;

Index altered.

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DROPPING INDEX

==============

1)DELETE THE UINDEX.

SQL COMMAND:

DROP INDEX UINDEX;

Index dropped.

2)DELETE THE GIFINDEX.

SQL COMMAND:

 DROP INDEX GIFINDEX;

Index dropped.

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