TRIGGERS

=======

1)INCREASE THE PHONENO WHENEVER THE DETAILS ARE UPDATED ON TABLE.

SQL> CREATE OR REPLACE TRIGGER USE1

- 2 BEFORE UPDATE ON USER1
- 3 FOR EACH ROW
- 4 BEGIN
- 5 :NEW.PHONENO := :OLD.PHONENO+10;
- 6 END;

7 /

Trigger created.

UPDATE USER1 SET PHONENO=9876543210 WHERE USERID=301;

1 row updated.

SELECT * FROM USER1;

	USERID NAME	PHONENO MAIL ADHAARID LICENCENO TID ADDRESS	
-	 -		
	301 SRI	9087654320 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	

2) DISPLAY THE CVV OF ALL CID WHERE CVV>100000.

CREATE OR REPLACE TRIGGER CRED

- 2 AFTER UPDATE ON CREDITCARD
- 3 FOR EACH ROW
- 4 WHEN(NEW.CVV>100000)
- 5 BEGIN
- 6 DBMS_OUTPUT.PUT_LINE('OLD.CVV:' || :OLD.CVV);
- 7 DBMS_OUTPUT.PUT_LINE('NEW.CVV:' || :NEW.CVV);
- 8 END;

9 /

Trigger created.

UPDATE CREDITCARD SET CVV=100001 WHERE USERID=370;

OLD.CVV:22253

NEW.CVV:100001

SQL> SELECT CID, CVV FROM CREDITCARD;

3) DISPLAY A MESSAGE IF AMOUNT IS HIGHER THAN THE OLDER.

CREATE OR REPLACE TRIGGER AMT

- 2 BEFORE UPDATE OF AMOUNT ON GIFTCARD
- 3 FOR EACH ROW
- 4 BEGIN
- 5 IF(:NEW.AMOUNT>:OLD.AMOUNT)THEN
- 6 DBMS_OUTPUT.PUT_LINE('HIGHER THAN OLDER COST');
- 7 END IF;
- 8 END;
- 9 /

Trigger created.

UPDATE GIFTCARD SET AMOUNT=AMOUNT+20 WHERE USERID=355;

HIGHER THAN OLDER COST

1 row updated.

SQL> SELECT GID, AMOUNT FROM GIFTCARD;

GID	AMOUNT
555	242020
560	330000
505	275000
515	385000
500	550000

4) RAISE APPLICATION ERROR IF USER PHONENO IS NULL.

SQL> CREATE OR REPLACE TRIGGER PHON1

2 BEFORE INSERT ON USER1

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3 FOR EACH ROW
4 BEGIN
5 IF(:NEW.PHONENO IS NULL) THEN
6
        RAISE_APPLICATION_ERROR(-20004, 'PHONE NO IS EMPTY');
7 END IF;
8 END;
9 /
Trigger created.
SQL> INSERT INTO USER1 (USERID, NAME, MAIL) VALUES (900, 'HARI', 'hari@gmail.com');
INSERT INTO USER1 (USERID, NAME, MAIL) VALUES (900, 'HARI', 'hari@gmail.com');
INSERT INTO USER1 (USERID, NAME, MAIL) VALUES (900, 'HARI', 'hari@gmail.com')
ERROR at line 1:
ORA-20004: PHONE NO IS EMPTY
ORA-06512: at "C##21BCS048.PHON1", line 3
ORA-04088: error during execution of trigger 'C##21BCS048.PHON1'
5)CREATE A TRIGGER TO INSERT INTO A SENIOR USER TABLE WHEN NEW DETAILS INSERTED IN
ORIGINAL TABLE.
CREATE TABLE USERBACK (USERID INTEGER, NAME VARCHAR(20), ADDRESS VARCHAR(30), PHONENO
INT );
Table created.
CREATE TRIGGER BACK
2 AFTER INSERT ON USER1
3 FOR EACH ROW
4 BEGIN
```

5 INSERT INTO USERBACK(USERID,NAME,ADDRESS,PHONENO)VALUES(:NEW.USERID,:NEW.NAME,:NEW.ADDRESS,:N EW.PHONENO);						
6 END;						
7 /						
Trigger created.						
SQL> INSERT INTO USER1 VALUES(333,'KARTHI',9000011223,'karthi@gmail.com',NULL,NULL,NULL,'CHENNAI');						
1 row created.						
SQL> SELECT * FROM USERBACK;						
USERID NAME ADDRESS PHONENO						
333 KARTHI CHENNAI 9000011223						
5)DELETE USING TRIGGER.						
CREATE TRIGGER AMOT2						
2 AFTER DELETE ON GIFTCARD						
3 FOR EACH ROW						
4 WHEN(NEW.AMOUNT<30000)						
5 BEGIN						
6 DELETE FROM GIFTCARD WHERE AMOUNT<30000;						
7 DBMS_OUTPUT.PUT_LINE('DELETED');						
8 END;						
9 /						

Trigger created.

6)IF NEWLY INSERTED RECORD IN GIFTCARD HAS NULL OF AMOUNT THEN ADD THE CURRENT DATE.

```
SQL> CREATE OR REPLACE TRIGGER DATT
2 BEFORE INSERT ON GIFTCARD
3 FOR EACH ROW
4 DECLARE
5 TEMP DATE;
6
7 BEGIN
8 SELECT SYSDATE INTO TEMP FROM DUAL;
9 IF: NEW. GVALID IS NULL THEN
10 :NEW.GVALID:=TEMP;
11 END IF;
12 END;
13 /
Trigger created.
INSERT INTO GIFTCARD (GID, USERID, AMOUNT) VALUES (522, 370, 40000);
SQL> SELECT * FROM GIFTCARD;
   GID USERID AMOUNT GVALID
_____
  570 301 5000 07-FEB-30
   522
         370 40000 07-MAY-23
```

590

500

555

303 8000 04-APR-30

333 80000 10-MAY-90

355 242020 01-MAR-70

```
560 330 330000 03-APR-90
```

505 302 275000 08-JAN-44

6) RAISE APPLICATION ERROR IF USER ADDRESS IS NULL.

CREATE OR REPLACE TRIGGER USERADDRESS

- 2 BEFORE INSERT ON USER1
- 3 FOR EACH ROW
- 4 BEGIN
- 5 IF(:NEW.ADDRESS IS NULL)THEN
- 6 RAISE_APPLICATION_ERROR(-20004, 'ADDRESS IS EMPTY');
- 7 END IF;
- 8 END;

9 /

Trigger created.

INSERT INTO USER1 (USERID, NAME, PHONENO) VALUES (344, 'SENTHIL', 8765432100);

INSERT INTO USER1 (USERID, NAME, PHONENO) VALUES (344, 'SENTHIL', 8765432100)

*

ERROR at line 1:

ORA-20004: ADDRESS IS EMPTY

ORA-06512: at "C##21BCS048.USERADDRESS", line 3

ORA-04088: error during execution of trigger 'C##21BCS048.USERADDRESS'

7)INSTEAD OF IN TRIGGER.

SQL> CREATE TRIGGER UPDATE_GIF

- 2 INSTEAD OF UPDATE ON GVIEW2
- 3 FOR EACH ROW

- 4 BEGIN
- 5 UPDATE GIFTCARD SET AMOUNT=:NEW.AMOUNT WHERE USERID=:NEW.USERID;
- 6 END;

7 /

Trigger created.

SQL> UPDATE GVIEW2 SET AMOUNT=20000 WHERE USERID=301;

1 row updated.

SQL> SELECT * FROM GIFTCARD;

GID	USERID	AMOUNT GVALID
570	301	20000 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