

```
[21bcs048@mepcolinux fun]$ls
```

```
fun fun.prn
```

```
[21bcs048@mepcolinux fun]$cat fun
```

FUNCTIONS AND PROCEDURES

=====

1)CREATE A PROCEDURE WHICH IS USED TO INSERT A RECORD INTO A GIFTCARD TABLE.

```
CREATE OR REPLACE PROCEDURE "INSERTORD"
```

```
2 (GID IN NUMBER,USERID IN NUMBER,AMOUNT IN NUMBER,GVALID IN DATE)
```

```
3 IS
```

```
4 BEGIN
```

```
5 INSERT INTO GIFTCARD VALUES(GID,USERID,AMOUNT,GVALID);
```

```
6 END;
```

```
7 /
```

Procedure created.

```
SQL> SELECT * FROM GIFTCARD;
```

GID	USERID	AMOUNT	GVALID
570	301	5000	07-FEB-30
522	370	40000	07-MAY-23
590	303	8000	04-APR-30
500	333	80000	10-MAY-90
555	355	242020	01-MAR-70
560	330	330000	03-APR-90
505	302	275000	08-JAN-44

7 rows selected.

PROCEDURE CALLING

=====

SQL> BEGIN

```
2  INSERTORD(514,390,90000,'09-APR-2089');
3  DBMS_OUTPUT.PUT_LINE('NEW GIFTCARD ADDED SUCCESSFULLY');
4  END;
5  /
```

NEW GIFTCARD ADDED SUCCESSFULLY

PL/SQL procedure successfully completed.

2)CREATE A PROCEDURE TO DISPLAY THE USER IS NOT HAVE A GIFTCARD.

CREATE OR REPLACE PROCEDURE GIF

```
2  IS
3  CURSOR C1 IS SELECT * FROM USER1;
4  TROW1 C1%ROWTYPE;
5  CURSOR C2 IS SELECT * FROM GIFTCARD;
6  TROW2 C2%ROWTYPE;
7  BEGIN
8      OPEN C1;
9      OPEN C2;
10     DBMS_OUTPUT.PUT_LINE('NAME');
11     FETCH C1 INTO TROW1;
12     FETCH C2 INTO TROW2;
13     WHILE C1%FOUND LOOP
14         IF TROW1.USERID!=TROW2.USERID THEN
```

```

15      DBMS_OUTPUT.PUT_LINE(TROW1.NAME);
16  END IF;
17      FETCH C1 INTO TROW1;
18      FETCH C2 INTO TROW2;
19  END LOOP;
20  CLOSE C1;
21  CLOSE C2;
22  END;
23  /

```

Procedure created.

PROCEDURE CALLING

=====

SQL> BEGIN

2 GIF;

3 END;

4 /

NAME

KARTHI

SRI

BALA

SURESH

VICKY

PRABU

=====

PROCEDURE CALLING USING EXEC COMMAND

=====

```
SQL> EXEC INSERTORD(655,320,67844,'09-SEP-2070');
```

PL/SQL procedure successfully completed.

```
SQL> SELECT * FROM GIFTCARD;
```

GID	USERID	AMOUNT	GVALID
570	301	5000	07-FEB-30
522	370	40000	07-MAY-23
590	303	8000	04-APR-30
655	320	67844	09-SEP-70
500	333	80000	10-MAY-90
555	355	242020	01-MAR-70
560	330	330000	03-APR-90
505	302	275000	08-JAN-44

PROCEDURE CALLING USING CALL METHOD

=====

```
CALL INSERTORD(415,311,9870,'07-MAY-2030');
```

Call completed.

```
SQL> SELECT * FROM GIFTCARD;
```

GID	USERID	AMOUNT	GVALID
570	301	5000	07-FEB-30
522	370	40000	07-MAY-23

590	303	8000	04-APR-30
500	333	80000	10-MAY-90
415	311	9870	07-MAY-30
555	355	242020	01-MAR-70
560	330	330000	03-APR-90
505	302	275000	08-JAN-44

8 rows selected.

=====

CREATE A PROCEDURE TO DELETE THE AMOUNT WHICH IS GREATER THAN THE AMOUNT1.

```
SQL> CREATE OR REPLACE PROCEDURE DEL_AMOUNT
2  (AMOUNT1 IN GIFTCARD.AMOUNT%TYPE)
3  IS
4  BEGIN
5    DELETE FROM GIFTCARD WHERE AMOUNT>=AMOUNT1;
6  END;
7  /
```

Procedure created.

PROCEDURE CALLING.

=====

```
SQL> BEGIN
2  DEL_AMOUNT(11000);
3  dbms_output.put_line('DELETED sucessfully!');
4  END;
5  /
```

DELETED sucessfully!

PL/SQL procedure successfully completed.

=====

FUNCTIONS

=====

1)CREATE A USERDEFINED FUNCTION TO DISPLAY THE TOTAL NO.OF USERS.

SQL> CREATE OR REPLACE FUNCTION TUSER

2 RETURN NUMBER IS

3 TOTAL NUMBER(2) :=0;

4 BEGIN

5 SELECT COUNT(*) INTO TOTAL FROM USER1;

6 RETURN TOTAL;

7 END;

8 /

Function created.

FUNCTION CALLING

=====

SQL> DECLARE

2 C NUMBER(2);

3 BEGIN

4 C:=TUSER();

5 DBMS_OUTPUT.PUT_LINE('TOTAL USERS :'| C);

6 END;

7 /

TOTAL USERS :9

PL/SQL procedure successfully completed.

2)CREATE A USERDEFINED FUNCTION TO DISPLAY THE AMOUNT FOR THE GID=570.

CREATE OR REPLACE FUNCTION FIND_AMOUNT

2 RETURN NUMBER

3 IS

4 AMT NUMBER;

5 BEGIN

6 SELECT AMOUNT INTO AMT FROM GIFTCARD WHERE GID=570;

7 RETURN AMT;

8 END FIND_AMOUNT;

9 /

Function created.

FUNCTION CALLING

=====

SQL> DECLARE

2 AMOUNT NUMBER;

3 BEGIN

4 AMOUNT:=FIND_AMOUNT();

5 dbms_output.put_line('Total Amount: ' || AMOUNT);

6 END;

7 /

Total Amount: 5000

PL/SQL procedure successfully completed.

FUNCTION CALLING USING DUAL TABLE

=====

(1) SQL> SELECT TUSER() AS COUNT FROM DUAL;

COUNT

7

2)FUNCTION CALLING USING ORIGINAL TABLE.

SQL> SELECT USERID,NAME,PHONENO,TUSER() AS COUNT FROM USER1;

USERID	NAME	PHONENO	COUNT
301	SRI	9087654341	7
302	BALA	9098754321	7
303	SURESH	9098751231	7
355	ABI	9800003217	7
370	VICKY	9990003217	7
330	PRABU	9991103217	7

6 rows selected.

=====

CURSOR-EXPLICIT

=====

1)WRITE A QUERY TO CREATE A CURSOR TO DISPLAY NAME,PHONENO,USERID OF USER1.


```
SQL> SET SERVEROUTPUT ON;
```

```
SQL> DECLARE
```

```
2  CURSOR C1 IS SELECT * FROM USER1;
```

```
3  TROW C1%ROWTYPE;
```

```
4  BEGIN
```

```
5  OPEN C1;
```

```
6  LOOP
```

```
7  FETCH C1 INTO TROW;
```

```
8  EXIT WHEN (C1%NOTFOUND);
```

```
9  DBMS_OUTPUT.PUT_LINE('NAME:' || TROW.NAME || 'MOBILE NO:' || TROW.PHONENO || 'U  
SERID:' || TROW.USERID);
```

```
10 END LOOP;
```

```
11 CLOSE C1;
```

```
12 END;
```

```
13 /
```

```
NAME:SRIMOBILE NO:9087654341USERID:301
```

```
NAME:BALAMOBILE NO:9098754321USERID:302
```

```
NAME:SURESHMOBILE NO:9098751231USERID:303
```

```
NAME:ABIMOBILE NO:9800003217USERID:355
```

```
NAME:VICKYMOBILE NO:9990003217USERID:370
```

```
NAME:PRABUMOBILE NO:9991103217USERID:330
```

```
NAME:JENIMOBILE NO:USERID:340
```

PL/SQL procedure successfully completed.

CURSOR-IMPLICIT

=====

1)WRITE A QUERY TO CREATE A CURSOR TO DECREMENT CVV FOR ALL CREDITCARDS BY 10.

SQL> DECLARE

2 TOTAL_ROWS NUMBER(3);

3 BEGIN

4 UPDATE CREDITCARD

5 SET CVV=CVV-10;

6 IF SQL%NOTFOUND THEN

7 DBMS_OUTPUT.PUT_LINE('NO CREDITCARD SELECTED');

8 ELSIF SQL%FOUND THEN

9 TOTAL_ROWS:=SQL%ROWCOUNT;

10 DBMS_OUTPUT.PUT_LINE(TOTAL_ROWS || 'CREDITCARD SELECTED');

11 END IF;

12 END;

13 /

OLD.CVV:100001

NEW.CVV:99991

OLD.CVV:65453

NEW.CVV:65443

OLD.CVV:50000

NEW.CVV:49990

OLD.CVV:11000

NEW.CVV:10990

OLD.CVV:100001

NEW.CVV:99991

5CREDITCARD SELECTED

PL/SQL procedure successfully completed.

EXCEPTIONS

=====

2)WRITE A QUERY TO CREATE A CURSOR THAT THROWS AN EXECUTION ERROR WHEN NOT FOUND.

SQL> DECLARE

```
2  GIFD GIFTCARD.GID%TYPE :=8;
3  GVALIDITY GIFTCARD.GVALID%TYPE;
4  BEGIN
5    SELECT GVALID INTO GVALIDITY
6  FROM GIFTCARD
7  WHERE GID=GIFD;
8  DBMS_OUTPUT.PUT_LINE('GID:' || GIFD);
9  EXCEPTION
10   WHEN NO_DATA_FOUND THEN
11     DBMS_OUTPUT.PUT_LINE('NO SUCH GIFTCARD');
12   WHEN OTHERS THEN
13     DBMS_OUTPUT.PUT_LINE('ERROR');
14  END;
15 /
```

NO SUCH GIFTCARD

PL/SQL procedure successfully completed.