ASSIGNMENT-8

MORE PL/SQL

Name: Shangirne Kharbanda

Registration Number: 20BAI1154

Slot : L47 + L48

1. Write a PL/SQL function to print Hello world.

```
CREATE OR REPLACE FUNCTON HelloWorld
RETURN VARCHAR
IS
BEGIN
        RETURN 'HELLO WORLD';
END;
/S
DECLARE
        WISH VARCHAR2(20);
BEGIN
        WISH := HelloWorld();
        DBMS_OUTPUT.PUT_LINE(WISH);
END;
/
```

Statement processed.

HELLO WORLD

2. Write a PL/SQL function to print Hello world.

```
CREATE TABLE EMPLOYEE_20BAI1154(
```

```
EID INT,
NAME VARCHAR2(20),
DEPT VARCHAR2(20),
SALARY INT);



CREATE OR REPLACE FUNCTION TOTALEMP
RETURN NUMBER IS
TOTAL NUMBER(2) := 0;
BEGIN
SELECT COUNT(*) INTO TOTAL
FROM EMPLOYEE_20BAI1154;
RETURN TOTAL;
END;
/


DECLARE
        TOTAL_EMP NUMBER(2);
BEGIN
        TOTAL_EMP := TOTALEMP();
        DBMS_OUTPUT.PUT_LINE(TOTAL_EMP);
END;
/
```

Statement processed.

7

3. Write a PL/SQL function that displays the course description for a course. If the course is not available, suitable message should be displayed stating that the course is not available.

```
SELECT * FROM COURSE;


CREATE OR REPLACE FUNCTION C_DESCRIPTION
(I_COURSE_NO IN INT)
RETURN VARCHAR2
AS
V_DESCRIPTION VARCHAR2(30);
BEGIN
SELECT DESCRIPTION
INTO V_DESCRIPTION
FROM COURSE
WHERE C_ID = I_COURSE_NO;
RETURN V_DESCRIPTION;
EXCEPTION
WHEN NO_DATA_FOUND
THEN
RETURN('THE COURSE IS NOT IN THE DATABASE');
END;
/


DECLARE
        DESCRIPTION VARCHAR2(30);
BEGIN
        DESCRIPTION := C_DESCRIPTION(1);
        DBMS_OUTPUT.PUT_LINE(DESCRIPTION);
END;
/
```

5. Write a PL/SQL procedure to accept name as input parameter and print a greeting message.

```
CREATE OR REPLACE PROCEDURE GREET(NAME IN VARCHAR2)
IS
BEGIN
        DBMS_OUTPUT.PUT_LINE('Welcome' || NAME);
END;
/


EXEC GREET('MARK');
```

Statement processed.

Welcome MARK

6. Write a PL/SQL procedure that sets a greeting message to the output parameter. Invoke the procedure and observe the output.

```
CREATE OR REPLACE PROCEDURE OUTPUT_MESSAGE(MESSAGE OUT VARCHAR)
IS
BEGIN
        MESSAGE := 'THIS IS AN AMAZING DAY!';
END;
/


DECLARE
        MES VARCHAR2(30);
BEGIN
        OUTPUT_MESSAGE(MES);
        DBMS_OUTPUT.PUT_LINE(MES);
END;
```

/

7. Write a PL/SQL procedure using IN OUT parameter to display a greeting message.

```
CREATE OR REPLACE PROCEDURE OUTPUT_MESSAGE(MESSAGE IN OUT VARCHAR)
IS
BEGIN
	MESSAGE := 'HI' || MESSAGE || ', HAVE A GREAT DAY';
END;
/

DECLARE
	MES VARCHAR2(30) := 'MARK';
BEGIN
	OUTPUT_MESSAGE(MES);
	DBMS_OUTPUT.PUT_LINE(MES);
END;
/
```

Statement processed.

HI MARK, HAVE A GREAT DAY

8. Write a PL/SQL procedure to compute the employee bonus and print the same.

```
SELECT * FROM EMPLOYEE_20BAI1154;

CREATE OR REPLACE PROCEDURE BONUS_CAL (E_ID IN NUMBER, BONUS OUT NUMBER)
IS BEGIN
```

```
SELECT SALARY*0.3 INTO BONUS FROM EMPLOYEE_20BAI1154 WHERE EID=E_ID;

END BONUS_CAL;

/


DECLARE

        BONUS INT;

        EID INT;

BEGIN

        EID := 2;

        BONUS_CAL(EID,BONUS);

        DBMS_OUTPUT.PUT_LINE('BONUS FOR EMPLOYEE' || EID || 'IS' || BONUS);

END;

/
```

9. Write a PL/SQL procedure for inserting values into student table.

Already Done.

10. Write a PL/SQL procedure to check if an employee exists in database and throw suitable exception message if not present.