

Database Management System (DBMS – 204)

Experiment # 12

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Roll Number: SE-19028

Maximum Marks	Performance = 05	Viva = 05	Total = 10
Marks Obtained			
Remarks (if any)			

Experiment evaluated by

Instructor Name: Engr. Adiba Jafar

Signature and Date:

-Writing Executable Statements

```
Data Type Conversion
```

Conversion functions:

- TO_CHAR
- $-TO_DATE$
 - TO_NUMBER

```
DECLARE
```

```
v_{date} = TO_{DATE('12-JAN-2001', 'DD-MON-YYYY'); BEGIN
```

- . . .

LAB #12 Writing Executable Statements

PRACTICE TASKS

1. In the executable section, initialize the tomorrow variable with an expression that calculates tomorrow's date (add 1 to the value in today). Print the value of today and tomorrow after printing 'Hello World'.

```
DECLARE

v_today DATE := SYSDATE;
v_tomorow v_today%TYPE := SYSDATE +1;

BEGIN

DBMS_OUTPUT.PUT_LINE('Hello World');
DBMS_OUTPUT.PUT_LINE(v_today);
DBMS_OUTPUT.PUT_LINE(v_tomorow);

END;
```

2. Examine the following code and then answer the questions.

A. Now, run the code. What is the output?

Ans: 579

3. Examine the following code and then answer the questions.

A. What do you think the output will be when you run the above code?

Ans: 11

B. Now run the code. What is the output?

Ans: 11

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C. In your own words, explain the results.

Ans: Since Precedence of multiplication is more than addition that's why at first 3 and 2 are multiplied and then then result is added in 5, that's why the output is 11.

4. Evaluate the PL/SQL block below and determine the value of each of the following variables according to the rules of scoping.

```
SET SERVEROUTPUT ON
 DECLARE
           weight NUMBER(3) := 600;
           message VARCHAR2(255) := 'Product 10012';
 BEGIN
           DECLARE
                    weight NUMBER(3) := 1;
                    message VARCHAR2(255) := 'Product 11001';
                    new locn VARCHAR2 (50) := 'Europe';
           BEGIN
                    weight := weight + 1;
                    new locn := 'Western ' || new locn;
                    -- Position 1 -
                    DBMS OUTPUT.PUT LINE (weight | message | new locn);
           END:
           weight := weight + 1;
           message := message || ' is in stock';
           -- Position 2 -
           DBMS OUTPUT.PUT LINE (weight | message | V NEW LOCN);
 END:
A. The value of V WEIGHT at position 1 is: 2
B. The value of V NEW LOCN at position 1 is: Western Europe
C. The value of V WEIGHT at position 2 is: 601
D. The value of V MESSAGE at position 2 is: Product 10012 is in stock
E. The value of V NEW LOCN at position 2 is: 'V NEW LOCN' is not declared
```

5. Suppose you created a sub block within a block, as shown above. You declare two variables, V_CUSTOMER and V_CREDIT_RATING, in the main block. You also declare two variables, V_CUSTOMER and V_NAME, in the sub block. Determine the values and data types for each of the following cases mention below:

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A. The value of V CUSTOMER in the sub block is: 201.

- B. The value of V NAME in the sub block is: Unisports.
- C. The value of V CREDIT RATING in the sub block is: **EXCELLENT.**
- D. The value of V CUSTOMER in the main block is: Womansport.
- E. The value of V NAME in the main block is: 'V NAME' is not declared.
- F. The value of V CREDIT RATING in the main block is: **EXCELLENT.**
- 6. Create and execute a PL/SQL block that accepts two numbers through iSQL*Plus substitution variables. The first number should be divided by the second number and have the second number added to the result. The result should be stored in a PL/SQL variable and printed on the screen.
 - **a.** Use the DEFINE command to provide the two values.

```
DEFINE p_num1 =2
DEFINE p_num2 =4
```

b. Pass the two values defined in step a above, to the PL/SQL block through iSQL*Plus substitution variables.

Ans: