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Semester: 4
Subject Name: Database Management System

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Experiment – 3

1. Aim of the Session

To understand the basic structure of a PL/SQL program by creating and executing a simple PL/SQL block that includes Declaration and Execution sections and to display output using built-in procedures.

2. Software Requirements

Database Management System: PostgreSQL
Database Administration Tool: pgAdmin

3. Objectives

- To learn the structure of a PL/SQL block.
- To use the DECLARE section for variable declaration.
- To use the BEGIN...END block for execution.
- To display output using `DBMS_OUTPUT.PUT_LINE`.

4. Procedure of the Experiment

1. Open pgAdmin and connect to the PostgreSQL database.
2. Open the Query Tool.
3. Write a PL/SQL program with:

- Declaration section
 - Execution section
4. Declare variables for employee details.
5. Display the variable values using output statements.
6. Execute the program and observe the result.

5. Practical / Experiment Steps

1. Enable server output.
2. Declare variables `emp_id`, `emp_name`, and `emp_salary`.
3. Assign values to these variables.
4. Print the values using `DBMS_OUTPUT.PUT_LINE`.
5. End the PL/SQL block.

6. Input / Output Details and Screenshot

Program (Input):

```
[ SQL Worksheet ]* ▶ ⏷ ⏸ ⏹ ⏺ Aa ▾ 🗑
```

```
1  SET SERVEROUTPUT ON;
2
3  DECLARE
4      emp_id NUMBER := 101;
5      emp_name VARCHAR2(50) := 'Bhavya';
6      birth_year NUMBER := 2006;
7      current_year NUMBER := 2026;
8      age NUMBER;
9  BEGIN
10     age := current_year - birth_year;
11
12     DBMS_OUTPUT.PUT_LINE('Employee ID: ' || emp_id);
13     DBMS_OUTPUT.PUT_LINE('Employee Name: ' || emp_name);
14     DBMS_OUTPUT.PUT_LINE('Birth Year: ' || birth_year);
15     DBMS_OUTPUT.PUT_LINE('Current Year: ' || current_year);
16     DBMS_OUTPUT.PUT_LINE('Age: ' || age || ' years');
17 END;
```

Output:

Query result Script output DBMS output Explain Plan SQL history

Employee ID: 101
Employee Name: Bhavya
Birth Year: 2006
Current Year: 2026
Age: 20 years

PL/SQL procedure successfully completed.

Elapsed: 00:00:00.008

7. Learning Outcome

- Understood the basic structure of a PL/SQL block.
- Learned how to declare and initialize variables.
- Learned how to execute statements inside BEGIN...END block.
- Learned how to display output using DBMS_OUTPUT.PUT_LINE.