Week 10

SQL>ed add\_numbers

CREATE OR REPLACE PROCEDURE add\_numbers(a IN NUMBER, b IN NUMBER, sum OUT NUMBER) IS

BEGIN

sum := a + b;

END;

/

SQL> ED ADD

DECLARE

result NUMBER;

BEGIN

add\_numbers(10, 20, result);

DBMS\_OUTPUT.PUT\_LINE('Sum: ' || result);

END;

/

2.

CREATE OR REPLACE FUNCTION square\_number(n NUMBER)

RETURN NUMBER AS

BEGIN

RETURN n \* n;

END;

/

DECLARE

result NUMBER;

BEGIN

result := square\_number(5);

DBMS\_OUTPUT.PUT\_LINE('Square: ' || result);

END;

/

4. CREATE OR REPLACE FUNCTION total\_salary

RETURN NUMBER

AS

total\_expense NUMBER;

BEGIN

SELECT SUM(salary) INTO total\_expense FROM employees;

RETURN total\_expense;

END;

/

DECLARE

result NUMBER;

BEGIN

result := total\_salary;

DBMS\_OUTPUT.PUT\_LINE('Total Salary Expense: ' || result);

END;

/

5. CREATE OR REPLACE PROCEDURE insert\_student(s\_id NUMBER, s\_name VARCHAR2, s\_age NUMBER) AS

BEGIN

INSERT INTO student(id, name, age) VALUES (s\_id, s\_name, s\_age);

END;

/

BEGIN

insert\_student(1, 'Sumit', 20);

END;

/

3.

CREATE OR REPLACE PROCEDURE get\_employee\_info(emp\_id IN NUMBER) IS

emp\_name employees.name%TYPE;

emp\_dept employees.department%TYPE;

emp\_salary employees.salary%TYPE;

BEGIN

SELECT name, department, salary

INTO emp\_name, emp\_dept, emp\_salary

FROM employees

WHERE id = emp\_id;

DBMS\_OUTPUT.PUT\_LINE('Employee Name: ' || emp\_name);

DBMS\_OUTPUT.PUT\_LINE('Department: ' || emp\_dept);

DBMS\_OUTPUT.PUT\_LINE('Salary: ' || emp\_salary);

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

DBMS\_OUTPUT.PUT\_LINE('No employee found with ID: ' || emp\_id);

END;

/

BEGIN

get\_employee\_info(101); -- Replace 101 with the specific employee ID

END;

/