Week 2 Mandatory Hands-on Exercise Answers

# PL/SQL programming - Exercise 1: Control Structures

Code:

DECLARE

    v\_number NUMBER := 15;

    v\_result VARCHAR2(50);

BEGIN

    -- IF-THEN-ELSE structure

    IF v\_number < 10 THEN

        v\_result := 'Less than 10';

    ELSIF v\_number = 10 THEN

        v\_result := 'Equal to 10';

    ELSE

        v\_result := 'Greater than 10';

    END IF;

    DBMS\_OUTPUT.PUT\_LINE('IF result: ' || v\_result);

    -- CASE structure

    CASE

        WHEN v\_number BETWEEN 1 AND 10 THEN

            v\_result := 'Between 1 and 10';

        WHEN v\_number BETWEEN 11 AND 20 THEN

            v\_result := 'Between 11 and 20';

        ELSE

            v\_result := 'Outside range';

    END CASE;

    DBMS\_OUTPUT.PUT\_LINE('CASE result: ' || v\_result);

    -- FOR LOOP

    FOR i IN 1..5 LOOP

        DBMS\_OUTPUT.PUT\_LINE('FOR LOOP iteration: ' || i);

    END LOOP;

    -- WHILE LOOP

    DECLARE

        v\_counter NUMBER := 1;

    BEGIN

        WHILE v\_counter <= 3 LOOP

            DBMS\_OUTPUT.PUT\_LINE('WHILE LOOP iteration: ' || v\_counter);

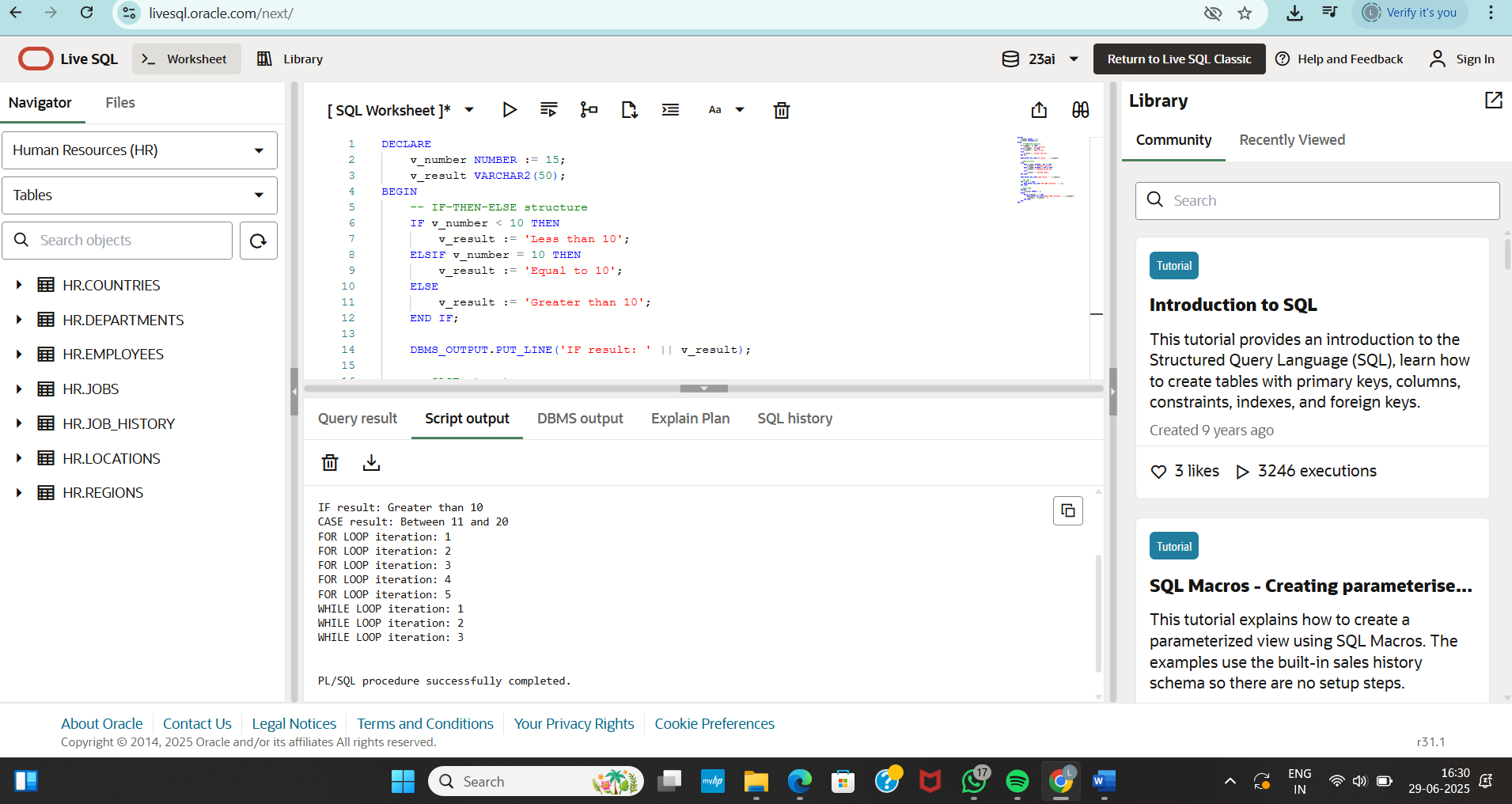
            v\_counter := v\_counter + 1;

        END LOOP;

    END;

END;

**OUTPUT:**

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# PL/SQL programming - Exercise 3: Stored Procedures

CODE:

SET SERVEROUTPUT ON;

DECLARE

v\_input NUMBER := 6;

v\_result NUMBER;

BEGIN

v\_result := v\_input \* v\_input;

DBMS\_OUTPUT.PUT\_LINE('Square of ' || v\_input || ' is: ' || v\_result);

END;

OUTPUT:

