

Exp11

PL/SQL PROGRAMS

1 DECLARE

 v_emp_id NUMBER := 110;

 v_salary EMPLOYEES.SALARY%TYPE;

 v_incentive NUMBER;

BEGIN

 SELECT SALARY INTO v_salary

 FROM EMPLOYEES

 WHERE EMPLOYEE_ID = v_emp_id;

 v_incentive := v_salary * 0.10;

 DBMS_OUTPUT.PUT_LINE('Employee ID: ' || v_emp_id);

 DBMS_OUTPUT.PUT_LINE('Salary: ' || v_salary);

 DBMS_OUTPUT.PUT_LINE('Incentive (10%): ' || v_incentive);

EXCEPTION

 WHEN NO_DATA_FOUND THEN

 DBMS_OUTPUT.PUT_LINE('Employee with ID ' || v_emp_id || ' not found.');

END;

/

2 DECLARE

 "MyVar" NUMBER := 10; -- quoted identifier (case-sensitive)

 myvar NUMBER := 20; -- unquoted identifier (case-insensitive)

BEGIN

 DBMS_OUTPUT.PUT_LINE("MyVar"); -- valid

 DBMS_OUTPUT.PUT_LINE(MyVar); -- invalid case-insensitive reference to quoted identifier

EXCEPTION

 WHEN OTHERS THEN

 DBMS_OUTPUT.PUT_LINE('Error: Invalid case-insensitive reference to quoted identifier.');

END;

/

3 DECLARE

 v_emp_id NUMBER := 122;

 v_salary EMPLOYEES.SALARY%TYPE;

BEGIN

 SELECT SALARY INTO v_salary

 FROM EMPLOYEES

 WHERE EMPLOYEE_ID = v_emp_id;

 v_salary := v_salary * 1.15; -- increase by 15%

 UPDATE EMPLOYEES

 SET SALARY = v_salary

 WHERE EMPLOYEE_ID = v_emp_id;

 DBMS_OUTPUT.PUT_LINE('Salary updated successfully for employee ' || v_emp_id);

 DBMS_OUTPUT.PUT_LINE('New Salary: ' || v_salary);

 COMMIT;

EXCEPTION

 WHEN NO_DATA_FOUND THEN

 DBMS_OUTPUT.PUT_LINE('Employee with ID ' || v_emp_id || ' not found.');

END;

/

4 CREATE OR REPLACE PROCEDURE check_nulls IS

 v_value1 NUMBER := NULL;

 v_value2 NUMBER := 10;

BEGIN

 IF v_value1 IS NULL AND v_value2 IS NOT NULL THEN

 DBMS_OUTPUT.PUT_LINE('Condition is TRUE because v_value1 IS NULL and v_value2 IS NOT NULL.');

 ELSE

 DBMS_OUTPUT.PUT_LINE('Condition is FALSE.');

 END IF;

```
END;
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/
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```
-- Execute the procedure
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```
BEGIN
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```
    check_nulls;
```

```
END;
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/
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```
5 DECLARE
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```
    v_name EMPLOYEES.LAST_NAME%TYPE;
```

```
BEGIN
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```
    DBMS_OUTPUT.PUT_LINE('Employees whose last name starts with "S":');
```

```
    FOR rec IN (
```

```
        SELECT LAST_NAME FROM EMPLOYEES
```

```
        WHERE LAST_NAME LIKE 'S%'
```

```
    ) LOOP
```

```
        DBMS_OUTPUT.PUT_LINE(rec.LAST_NAME);
```

```
    END LOOP;
```

```
    DBMS_OUTPUT.PUT_LINE(CHR(10) || 'Employees whose last name contains "_" ' ||  
character:');
```

```
    FOR rec IN (
```

```
        SELECT LAST_NAME FROM EMPLOYEES
```

```
        WHERE LAST_NAME LIKE '%\_%' ESCAPE '\'
```

```
    ) LOOP
```

```
        DBMS_OUTPUT.PUT_LINE(rec.LAST_NAME);
```

```
    END LOOP;
```

```
END;
```

```
/
```