

PROGRAM 1

Write a PL/SQL block to calculate the incentive of an employee whose ID is 110.

DECLARE

V_Salary NUMBER;

V_incentive NUMBER;

BEGIN

SELECT Salary INTO V_Salary

FROM employees

WHERE employee_id = 110;

V_incentive := V_Salary * 0.10;

DBMS_OUTPUT.PUT_LINE ('Incentive for employee 110 is:
' || V_incentive);

END;

PROGRAM 2

Write a PL/SQL block to show an invalid case-insensitive reference to a quoted and without quoted user-defined identifier.

DECLARE

"MyVar" NUMBER := 100;

BEGIN

DBMS_OUTPUT.PUT_LINE (myvar);

END;



PROGRAM 3

Write a PL/SQL block to adjust the salary of the employee whose ID 122.

Sample table: employees

DECLARE

v_salary NUMBER;

BEGIN

SELECT salary INTO v_salary

FROM employees

WHERE employee_id = 122;

UPDATE employees

SET salary = v_salary * 1.10

WHERE employee_id = 122;

DBMS_OUTPUT.PUT_LINE('Salary updated for employee 122');

END;



PROGRAM 4

Write a PL/SQL block to create a procedure using the "IS [NOT] NULL Operator" and show AND operator returns TRUE if and only if both operands are TRUE.

```
CREATE OR REPLACE PROCEDURE check_conditions IS
```

```
  V_name VARCHAR(50) := 'Priya';
```

```
  V_status VARCHAR(10) := NULL;
```

```
  BEGIN
```

```
    IF V_name IS NOT NULL AND V_status IS NOT  
    NULL THEN
```

```
      DBMS_OUTPUT.PUT_LINE ('Both Conditions are TRUE');
```

```
    ELSE
```

```
      DBMS_OUTPUT.PUT_LINE ('AND operator returned  
      FALSE');
```

```
    END IF;
```

```
  END;
```

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PROGRAM 5

Write a PL/SQL block to describe the usage of LIKE operator including wildcard characters and escape character.

DECLARE

V_name VARCHAR2(100);

BEGIN

SELECT name INTO v_name

FROM employees

WHERE name LIKE 'A%';

DBMS_OUTPUT.PUT_LINE ('Name Starting with A: ' || v_name);

SELECT name INTO v_name

FROM employees

WHERE name LIKE 'John%';

DBMS_OUTPUT.PUT_LINE ('Name matching John: ' || v_name);

SELECT name INTO v_name

FROM employees

WHERE name LIKE 'A_%' ESCAPE '\';

DBMS_OUTPUT.PUT_LINE ('Name Starting with A_ (literal underscore): ' || v_name);

END;

PROGRAM 6

Write a PL/SQL program to arrange the number of two variable in such a way that the small number will store in num_small variable and large number will store in num_large variable.

DECLARE

num1 NUMBER := 45;

num2 NUMBER := 30;

num_small NUMBER;

num_large NUMBER;

BEGIN

IF num1 < num2 THEN

num_small := num1;

num_large := num2;

ELSE

num_small := num2;

num_large := num1;

END IF;

DBMS_OUTPUT.PUT_LINE ('Smaller number: ' || num_small);

DBMS_OUTPUT.PUT_LINE ('Larger number: ' || num_large);

END;

PROGRAM 7

Write a PL/SQL procedure to calculate the incentive on a target achieved and display the message either the record updated or not.

```
CREATE OR REPLACE PROCEDURE update_incentive (p_emp_id NUMBER,  
        p_target NUMBER) IS  
    v_incentive NUMBER;  
    v_rows_updated NUMBER;  
  
BEGIN  
    v_incentive := p_target * 0.15;  
  
    UPDATE employees  
    SET incentive = v_incentive  
    WHERE employee_id = p_emp_id;  
  
    v_rows_updated := SQL%ROWCOUNT;  
  
    IF v_rows_updated > 0 THEN  
        DBMS_OUTPUT.PUT_LINE ('Record updated for employee'  
                                || p_emp_id);  
    ELSE  
        DBMS_OUTPUT.PUT_LINE ('No record updated. Employee  
                                ID not found.');
```

END IF

END;

/

Begin

update_incentive (110, 50000);

END;

PROGRAM 8

Write a PL/SQL procedure to calculate incentive achieved according to the specific sale limit.

```

CREATE OR REPLACE PROCEDURE Calculate_incentive (P_emp_id NUMBER,
P_Sales NUMBER) IS
    V_incentive NUMBER := 0;
BEGIN
    IF P_Sales ≥ 100000 THEN
        V_incentive := P_Sales * 0.10;
    ELSEIF P_Sales ≥ 50000 THEN
        V_incentive := P_Sales * 0.05;
    ELSE
        V_incentive := P_Sales * 0.02;
    END IF;

    UPDATE employees
    SET incentive = V_incentive
    WHERE employee_id = P_emp_id;

    IF SQL%ROWCOUNT > 0 THEN
        DBMS_OUTPUT.PUT_LINE('Incentive updated for employee ' ||
P_emp_id);
    ELSE
        DBMS_OUTPUT.PUT_LINE('No matching employee found.
Record not updated. ');
    END IF;
END;
/

```


PROGRAM 9

Write a PL/SQL program to count number of employees in department 50 and check whether this department have any vacancies or not. There are 45 vacancies in this department.

DECLARE

v_emp_Count NUMBER;

v_vacancies NUMBER := 45;

BEGIN

SELECT Count(*) INTO v_emp_Count
FROM employees

WHERE department_id = 50;

DBMS_OUTPUT.PUT_LINE ('Number of employees in department 50: ' ||
v_emp_Count)

IF v_emp_Count < v_vacancies THEN

DBMS_OUTPUT.PUT_LINE ('vacancies available: ' || (v_vacancies -
v_emp_Count));

ELSE

DBMS_OUTPUT.PUT_LINE ('No vacancies available in department
50.');

END IF;

END;

PROGRAM 14

Write a PL/SQL program to display the employee IDs, names, and job history start dates of all employees.

DECLARE

CURSOR emp-job-cursor IS

SELECT e.employee_id
e.first_name || ' ' || e.last_name AS full_name,
j.start_date

FROM employees e

JOIN job_history j ON e.employee_id = j.employee_id;

v_emp_id employees.employee_id %TYPE;

v_emp_name VARCHAR2(100);

v_start_date job_history.start_date %TYPE;

BEGIN

OPEN emp-job-cursor;

LOOP

FETCH emp-job-cursor INTO v_emp_id, v_emp_name, v_start_date;

EXIT WHEN emp-job-cursor %NOT FOUND;

DBMS_OUTPUT.PUT_LINE ('ID: ' || v_emp_id || ', name: ' ||

v_emp_name || ', job start date: ' || TO_CHAR

(v_start_date, 'DD-MON-YY'));

END LOOP;

CLOSE emp-job-cursor;

END;

PROGRAM 15

Write a PL/SQL program to display the employee IDs, names, and job history end dates of all employees.

DECLARE

Cursor emp_job Cursor IS

SELECT e.employee_id,

e.first_name || ' ' || e.last_name AS full_name,
j.end_date

FROM employees e

JOIN job_history j ON e.employee_id = j.employee_id;

Evaluation Procedure	Marks awarded
PL/SQL Procedure(5)	5
Program/Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	<i>P. J. A.</i>

v-emp-id

v-emp-name

v-end-date

employees.employee_id %TYPE;

VARCHAR2(100);

job_history.end_date %TYPE;

BEGIN

OPEN emp_job CURSOR;

LOOP

FETCH emp_job CURSOR INTO v-emp-id, v-emp-name,
v-end-date;

END LOOP;

END; CLOSE emp_job CURSOR;