

# DBMS Assignment 4

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Q1

DECLARE

v\_employee\_id employee.employee\_id%TYPE;

v\_salary employee.salary%TYPE;

BEGIN

FOR employee\_rec IN (SELECT employee\_id, salary FROM employee WHERE salary > 80000 AND department\_id IN ('CS', 'ECE')) LOOP

v\_employee\_id := employee\_rec.employee\_id;

DBMS\_OUTPUT.PUT\_LINE('Employee ID: ' || v\_employee\_id);

END LOOP;

END;

/

```
DECLARE
  v_employee_id employee.employee_id%TYPE;
  v_salary      employee.salary%TYPE;
BEGIN
  FOR employee_rec IN (SELECT employee_id, salary FROM employee WHERE salary > 80000) LOOP
    v_employee_id := employee_rec.employee_id;
    DBMS_OUTPUT.PUT_LINE('Employee ID: ' || v_employee_id);
  END LOOP;
END;
```

```
Statement processed.
Employee ID: 1
Employee ID: 2
Employee ID: 4
Employee ID: 5
Employee ID: 6
Employee ID: 7
Employee ID: 8
Employee ID: 9
Employee ID: 10
```

Q2.

SET SERVEROUTPUT ON;

DECLARED

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v_employee_id employee.employee_id%TYPE;

v_first_name employee.first_name%TYPE;

v_hire_year NUMBER;

BEGIN

    FOR employee_rec IN (SELECT employee_id, first_name, EXTRACT(YEAR
FROM hire_date) AS hire_year

                        FROM employee

                        WHERE dept_id = 'CS' AND EXTRACT(YEAR FROM hire_date) =
2021) LOOP

        v_employee_id := employee_rec.employee_id;

        v_first_name := employee_rec.first_name;

        v_hire_year := employee_rec.hire_year;

        DBMS_OUTPUT.PUT_LINE('Employee ID: ' || v_employee_id || ', First
Name: ' || v_first_name || ', Hire Year: ' || v_hire_year);

    END LOOP;

END;

/

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DECLARE
v_employee_id employee.employee_id%TYPE;
v_first_name employee.first_name%TYPE;
v_hire_year NUMBER;
BEGIN
    FOR employee_rec IN (SELECT employee_id, first_name, EXTRACT(YEAR FROM hire_date) AS hire_year
                        FROM employee
                        WHERE dept_id = 'CS' AND EXTRACT(YEAR FROM hire_date) = 2021) LOOP
        v_employee_id := employee_rec.employee_id;
        v_first_name := employee_rec.first_name;
        v_hire_year := employee_rec.hire_year;
        DBMS_OUTPUT.PUT_LINE('Employee ID: ' || v_employee_id || ', First Name: ' || v_first_name || ', Hire Year: ' || v_hire_year);
    END LOOP;
END;

```

```

Statement processed.
Employee ID: 2, First Name: Mary, Hire Year: 2021
Employee ID: 6, First Name: Susan, Hire Year: 2021
Employee ID: 10, First Name: Linda, Hire Year: 2021

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Q3.

SET SERVEROUTPUT ON;

DECLARE

```
CURSOR c_employee IS
    SELECT job_id
    FROM employee;
v_job_title employee.job_id%TYPE;
BEGIN
    -- Print heading
    DBMS_OUTPUT.PUT_LINE('Job Title');

    -- Open the cursor
    OPEN c_employee;

    -- Loop through employees and print job titles
    LOOP
        FETCH c_employee INTO v_job_title;
        EXIT WHEN c_employee%NOTFOUND;

        -- Print job title
        DBMS_OUTPUT.PUT_LINE(v_job_title);
    END LOOP;

    -- Close the cursor
    CLOSE c_employee;
END;
/
```

```
1 SET SERVEROUTPUT ON;
2 DECLARE
3     CURSOR c_employee IS
4         SELECT job_id
5             FROM employee;
6         v_job_title employee.job_id%TYPE;
7 BEGIN
8     -- Print heading
9     DBMS_OUTPUT.PUT_LINE('Job Title');
10
11 -- Open the cursor
12 OPEN c_employee;
13
14 -- Loop through employees and print job titles
15 LOOP
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```

```

OPEN c_employee;

-- Loop through employees and print details

LOOP

    FETCH c_employee INTO v_employee_id, v_full_name, v_job_id,
v_hire_date, v_salary;

    EXIT WHEN c_employee%NOTFOUND;

    -- Print employee details

    DBMS_OUTPUT.PUT_LINE(v_employee_id || ' ' || v_full_name || ' ' ||
v_job_id || ' ' || TO_CHAR(v_hire_date, 'YYYY-MM-DD') || ' ' || v_salary);

END LOOP;

-- Close the cursor

CLOSE c_employee;

END;

/

```

```

1  SET SERVEROUTPUT ON;
2  DECLARE
3      CURSOR c_employee IS
4          SELECT employee_id, first_name || ' ' || last_name AS full_name, job_id, hire_date, salary
5              FROM employee;
6          v_employee_id    employee.employee_id%TYPE;
7          v_full_name      employee.first_name%TYPE;
8          v_job_id         employee.job_id%TYPE;
9          v_hire_date      employee.hire_date%TYPE;
10         v_salary         employee.salary%TYPE;
11 BEGIN
12     -- Print column headings
13     DBMS_OUTPUT.PUT_LINE('Employee ID | Full Name | Job Title | Hire Date | Salary');
14     DBMS_OUTPUT.PUT_LINE('-----');
15
Statement processed.
Employee ID | Full Name | Job Title | Hire Date | Salary
-----
1 | John Smith | JOB1 | 2022-01-01 | 85000
2 | Mary Johnson | JOB2 | 2021-12-15 | 90000
3 | Michael Williams | JOB1 | 2022-02-05 | 75000
4 | Lisa Jones | JOB1 | 2022-01-20 | 95000
5 | David Brown | JOB2 | 2021-11-30 | 87000
6 | Susan Davis | JOB1 | 2021-12-10 | 81000
7 | Robert Miller | JOB2 | 2022-02-01 | 88000
8 | Patricia Wilson | JOB1 | 2022-01-05 | 92000
9 | James Moore | JOB2 | 2021-11-25 | 94000
10 | Linda Taylor | JOB1 | 2021-12-20 | 86000

```

Q5

```
DECLARE

    v_employee_count INTEGER := 0;

BEGIN

    -- Count the number of employees with a salary above 80000

    SELECT COUNT(*) INTO v_employee_count

    FROM employee

    WHERE salary > 80000;

    -- If the count is greater than 5, print the employee IDs

    IF v_employee_count > 5 THEN

        DBMS_OUTPUT.PUT_LINE('Employee IDs with salary above 80000:');

        FOR employee_rec IN (SELECT employee_id FROM employee WHERE
salary > 80000) LOOP

            DBMS_OUTPUT.PUT_LINE(employee_rec.employee_id);

        END LOOP;

    ELSE

        DBMS_OUTPUT.PUT_LINE('There are less than or equal to 5 employees
with salary above 80000.');
```

END IF;

```
END;

/
```

The screenshot shows an SQL Worksheet with a dark theme. At the top, there are buttons for 'Clear', 'Find', 'Actions', 'Save', and 'Run'. The main area contains a PL/SQL script with line numbers 1 through 15. The script declares a variable `v_employee_count` of type `INTEGER` and initializes it to 0. It then begins a block where it counts the number of employees with a salary above 80000 and stores the result in `v_employee_count`. Following this, it checks if the count is greater than 5. If true, it prints the employee IDs using `DBMS_OUTPUT.PUT_LINE` and loops through the employee IDs from the `employee` table where salary is greater than 80000. If the count is not greater than 5, it does nothing. The script ends with an `ELSE` clause. Below the script, the output shows 'Statement processed.' and 'Employee IDs with salary above 80000:' followed by a list of employee IDs from 1 to 10.

```
1 DECLARE
2   v_employee_count INTEGER := 0;
3 BEGIN
4   -- Count the number of employees with a salary above 80000
5   SELECT COUNT(*) INTO v_employee_count
6   FROM employee
7   WHERE salary > 80000;
8
9   -- If the count is greater than 5, print the employee IDs
10  IF v_employee_count > 5 THEN
11    DBMS_OUTPUT.PUT_LINE('Employee IDs with salary above 80000:');
12    FOR employee_rec IN (SELECT employee_id FROM employee WHERE salary > 80000) LOOP
13      DBMS_OUTPUT.PUT_LINE(employee_rec.employee_id);
14    END LOOP;
15  ELSE
```

Statement processed.  
Employee IDs with salary above 80000:  
1  
2  
4  
5  
6  
7  
8  
9  
10

Q6

DECLARE

`v_employee_id employee.employee_id%TYPE := 123; -- Specify the employee ID here`

`v_count        INTEGER;`

BEGIN

`-- Check if a record exists for the given employee ID`

`SELECT COUNT(*) INTO v_count`

`FROM employee`

`WHERE employee_id = v_employee_id;`

`-- If no record exists, insert a new record`

`IF v_count = 0 THEN`

`INSERT INTO employee (employee_id) -- Assuming employee_id is the only column required`

`VALUES (v_employee_id);`

`COMMIT; -- Commit the transaction`

```

        DBMS_OUTPUT.PUT_LINE('Record inserted for Employee ID ' ||
v_employee_id);

    ELSE

        DBMS_OUTPUT.PUT_LINE('Record already exists for Employee ID ' ||
v_employee_id);

    END IF;

EXCEPTION

    WHEN OTHERS THEN

        DBMS_OUTPUT.PUT_LINE('Error occurred: ' || SQLERRM);

END;

/

```

SQL Worksheet

Clear Find Actions Save Run

```

1 DECLARE
2     v_employee_id employee.employee_id%TYPE := 123; -- Specify the employee ID here
3     v_count       INTEGER;
4 BEGIN
5     -- Check if a record exists for the given employee ID
6     SELECT COUNT(*) INTO v_count
7     FROM employee
8     WHERE employee_id = v_employee_id;
9
10    -- If no record exists, insert a new record
11    IF v_count = 0 THEN
12        INSERT INTO employee (employee_id) -- Assuming employee_id is the only column required
13        VALUES (v_employee_id);
14        COMMIT; -- Commit the transaction
15        DBMS_OUTPUT.PUT_LINE('Record inserted for Employee ID ' || v_employee_id);
16    END IF;
17 END;

```

Statement processed.  
Record already exists for Employee ID 123

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPT_ID
123	-	-	-	-	-	-	-	-	-	-
1	John	Smith	john@example.com	123-456-7890	01-JAN-22	JOB1	85000	.05	-	ECE
2	Mary	Johnson	mary@example.com	324-567-8901	15-DEC-21	JOB2	90000	.03	1	CS

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