


queries.sql

42vg6uw6v 

NEW

PLSQL 

RUN 

```

1  -- Create Employees Table for demonstration
2  CREATE TABLE employees (
3      employee_id NUMBER PRIMARY KEY,
4      first_name VARCHAR2(50),
5      last_name VARCHAR2(50),
6      job_id VARCHAR2(10),
7      hire_date DATE,
8      salary NUMBER,
9      department_id NUMBER,
10     manager_id NUMBER
11 );
12
13 -- Create Departments Table for demonstration
14 CREATE TABLE departments (
15     department_id NUMBER PRIMARY KEY,
16     department_name VARCHAR2(50)
17 );
18
19 -- Insert sample data into employees table
20 INSERT INTO employees VALUES (110, 'John', 'Doe', 'IT_PROG', TO_DATE('2022-01-10', 'YYYY-MM-DD'), 60000, 50,
21 INSERT INTO employees VALUES (122, 'Jane', 'Smith', 'HR_REP', TO_DATE('2021-05-15', 'YYYY-MM-DD'), 50000, 50,
22 INSERT INTO employees VALUES (150, 'Alice', 'Johnson', 'HR_REP', TO_DATE('2020-03-20', 'YYYY-MM-DD'), 45000,
23
24 -- Insert sample data into departments table
25 INSERT INTO departments VALUES (50, 'Human Resources');
26 INSERT INTO departments VALUES (60, 'Information Technology');
27
28 -- Commit the inserts
29 COMMIT;
30
31 -- PROGRAM 1: Calculate the incentive of an employee whose ID is 110.
32 DECLARE
33     incentive    NUMBER(8,2);
34 BEGIN
35     SELECT salary * 0.12 INTO incentive
36     FROM employees
    
```

STDIN

Input for the program (Optional)

Output:

Incentive = 7200



Gmail



YouTube



Maps



Kodular Creator



MIT App Inventor



MIT App Inventor



WhatsApp



Translate



Kodular Creator



YouTube



SNGMSS



All Bookmarks



OneCompiler



EDITOR

CHALLENGES

ORGS

COMPANY & MORE

LOGIN

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5      last_name VARCHAR2(50),
6      job_id VARCHAR2(10),
7      hire_date DATE,
8      salary NUMBER,
9      department_id NUMBER,
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29 COMMIT;
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31 -- PROGRAM 1: Calculate the incentive of an employee whose ID is 110.
32 DECLARE
33     incentive    NUMBER(8,2);
```

STDIN

Input for the program (Optional)

Output:

Incentive = 7200

Value of "MyVariable": 100

Value of myvariable2: 200

Salary adjusted for employee with ID 122.

Employee Name: Alice

Small Number: 10

Large Number: 20

Number of employees in department 50: 2

There are vacancies in department 50.

Number of employees in department 50: 2

Vacancies available: 43

Employee ID	Full Name	Job Title	Hire Date	Salary
-------------	-----------	-----------	-----------	--------

110	John Doe	IT_PROG	10-JAN-22	60000
-----	----------	---------	-----------	-------

122	Jane Smith	HR_REP	15-MAY-21	55000
-----	------------	--------	-----------	-------

150	Alice Johnson	HR_REP	20-MAR-20	45000
-----	---------------	--------	-----------	-------

Employee ID: 110

Employee Name: John Doe

Department Name: Human Resources

Employee ID: 122

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57 -- PROGRAM 3: Adjust the salary of the employee whose ID is 122.
58 BEGIN
59     UPDATE employees
60     SET salary = salary * 1.10
61     WHERE employee_id = 122;
62
63     DBMS_OUTPUT.PUT_LINE('Salary adjusted for employee with ID 122.');
```

```

64 END;
65 /
66
67 -- PROGRAM 4: Create a procedure using the "IS [NOT] NULL Operator".
68 CREATE OR REPLACE PROCEDURE check_values(p_val1 IN NUMBER, p_val2 IN NUMBER) AS
69 BEGIN
70     IF p_val1 IS NOT NULL AND p_val2 IS NOT NULL THEN
71         DBMS_OUTPUT.PUT_LINE('Both values are NOT NULL');
72     ELSE
73         DBMS_OUTPUT.PUT_LINE('At least one value is NULL');
74     END IF;
75 END;
76 /
77
78 -- PROGRAM 5: Describe the usage of LIKE operator including wildcard characters and escape character.
79 DECLARE
80     v_employee_name employees.first_name%TYPE;
81 BEGIN
82     SELECT first_name INTO v_employee_name
83     FROM employees
84     WHERE first_name LIKE 'A%' ESCAPE '\'; -- Matches any name starting with 'A'
85
86     DBMS_OUTPUT.PUT_LINE('Employee Name: ' || v_employee_name);
87 END;
88 /
89
90 -- PROGRAM 6: Arrange two variables so that the small number is stored in num_small and the large in num_large
91 DECLARE
```

STDIN

Input for the program (Optional)

Value of "MyVariable": 100

Value of myvariable2: 200

Salary adjusted for employee with ID 122.

Employee Name: Alice

Small Number: 10

Large Number: 20

Number of employees in department 50: 2

There are vacancies in department 50.

Number of employees in department 50: 2

Vacancies available: 43

Employee ID	Full Name	Job Title	Hire Date	Salary
110	John Doe	IT_PROG	10-JAN-22	60000
122	Jane Smith	HR_REP	15-MAY-21	55000
150	Alice Johnson	HR_REP	20-MAR-20	45000

Employee ID: 110

Employee Name: John Doe

Department Name: Human Resources

Employee ID: 122

Employee Name: Jane Smith

Department Name: Human Resources

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```

68 CREATE OR REPLACE PROCEDURE check_values(p_val1 IN NUMBER, p_val2 IN NUMBER) AS
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71         DBMS_OUTPUT.PUT_LINE('Both values are NOT NULL');
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81 BEGIN
82     SELECT first_name INTO v_employee_name
83     FROM employees
84     WHERE first_name LIKE 'A%' ESCAPE '\'; -- Matches any name starting with 'A'
85
86     DBMS_OUTPUT.PUT_LINE('Employee Name: ' || v_employee_name);
87 END;
88 /
89
90 -- PROGRAM 6: Arrange two variables so that the small number is stored in num_small and the large in num_large
91 DECLARE
92     num1 NUMBER := 10;
93     num2 NUMBER := 20;
94     num_small NUMBER;
95     num_large NUMBER;
96 BEGIN
97     IF num1 < num2 THEN
98         num_small := num1;
99         num_large := num2;
100     ELSE
101         num_small := num2;
102         num_large := num1;
103     END IF;
104

```

STDIN

Input for the program (Optional)

Employee ID	Full Name	Job Title	Hire Date	Salary
110	John Doe	IT_PROG	10-JAN-22	60000
122	Jane Smith	HR_REP	15-MAY-21	55000
150	Alice Johnson	HR_REP	20-MAR-20	45000

Employee ID: 110
 Employee Name: John Doe
 Department Name: Human Resources

Employee ID: 122
 Employee Name: Jane Smith
 Department Name: Human Resources

Employee ID: 150
 Employee Name: Alice Johnson
 Department Name: Information Technology

FROM jobs; -- Assuming a jobs table exists
 *

ERROR at line 4:
 ORA-06550: line 4, column 14:
 PL/SQL: ORA-00942: table or view does not exist
 ORA-06550: line 3, column 9:

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```
117 DBMS_OUTPUT.PUT_LINE('Record updated with new incentive.');
```

```
118 ELSE
```

```
119 DBMS_OUTPUT.PUT_LINE('Target not achieved. No record updated.');
```

```
120 END IF;
```

```
121 END;
```

```
122 /
```

```
123
```

```
124 -- PROGRAM 8: Calculate incentive achieved according to a specific sale limit.
```

```
125 CREATE OR REPLACE PROCEDURE calculate_specific_incentive(p_sales_amount IN NUMBER) AS
```

```
126   v_incentive NUMBER;
```

```
127 BEGIN
```

```
128   IF p_sales_amount > 5000 THEN
```

```
129     v_incentive := p_sales_amount * 0.15; -- 15% incentive for sales above 5000
```

```
130     DBMS_OUTPUT.PUT_LINE('Incentive calculated: ' || v_incentive);
```

```
131   ELSE
```

```
132     DBMS_OUTPUT.PUT_LINE('No incentive, sales below limit.');
```

```
133   END IF;
```

```
134 END;
```

```
135 /
```

```
136
```

```
137 -- PROGRAM 9: Count the number of employees in department 50 and check for vacancies.
```

```
138 DECLARE
```

```
139   v_emp_count NUMBER;
```

```
140   v_vacancies NUMBER := 45; -- Total vacancies in department 50
```

```
141 BEGIN
```

```
142   SELECT COUNT(*) INTO v_emp_count FROM employees WHERE department_id = 50;
```

```
143
```

```
144   DBMS_OUTPUT.PUT_LINE('Number of employees in department 50: ' || v_emp_count);
```

```
145
```

```
146   IF v_emp_count < v_vacancies THEN
```

```
147     DBMS_OUTPUT.PUT_LINE('There are vacancies in department 50.');
```

```
148   ELSE
```

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

```
150   END IF;
```

```
151 END;
```

```
152 /
```

```
153
```

STDIN

Input for the program (Optional)

Small Number: 10

Large Number: 20

Number of employees in department 50: 2

There are vacancies in department 50.

Number of employees in department 50: 2

Vacancies available: 43

Employee ID	Full Name	Job Title	Hire Date	Salary
-------------	-----------	-----------	-----------	--------

110	John Doe	IT_PROG	10-JAN-22	60000
-----	----------	---------	-----------	-------

122	Jane Smith	HR_REP	15-MAY-21	55000
-----	------------	--------	-----------	-------

150	Alice Johnson	HR_REP	20-MAR-20	45000
-----	---------------	--------	-----------	-------

Employee ID: 110

Employee Name: John Doe

Department Name: Human Resources

Employee ID: 122

Employee Name: Jane Smith

Department Name: Human Resources

Employee ID: 150

Employee Name: Alice Johnson

Department Name: Information Technology

```
155 DECLARE
156     v_department_id NUMBER := 50; -- Example department ID
157     v_emp_count NUMBER;
158     v_vacancies NUMBER := 45; -- Total vacancies in the department
159 BEGIN
160     SELECT COUNT(*) INTO v_emp_count FROM employees WHERE department_id = v_department_id;
161
162     DBMS_OUTPUT.PUT_LINE('Number of employees in department ' || v_department_id || ': ' || v_emp_count);
163
164     IF v_emp_count < v_vacancies THEN
165         DBMS_OUTPUT.PUT_LINE('Vacancies available: ' || (v_vacancies - v_emp_count));
166     ELSE
167         DBMS_OUTPUT.PUT_LINE('No vacancies in department ' || v_department_id);
168     END IF;
169 END;
170 /
171
172 -- PROGRAM 11: Display employee IDs, names, job titles, hire dates, and salaries of all employees.
173 DECLARE
174     v_employee_id     employees.employee_id%TYPE;
175     v_full_name        VARCHAR2(50);
176     v_job_id           employees.job_id%TYPE;
177     v_hire_date         employees.hire_date%TYPE;
178     v_salary           employees.salary%TYPE;
179
180     CURSOR c_employees IS
181         SELECT employee_id, first_name || ' ' || last_name AS full_name, job_id, hire_date, salary
182         FROM employees;
183 BEGIN
184     DBMS_OUTPUT.PUT_LINE('Employee ID | Full Name | Job Title | Hire Date | Salary');
185     DBMS_OUTPUT.PUT_LINE('-----');
186
187     OPEN c_employees;
188     FETCH c_employees INTO v_employee_id, v_full_name, v_job_id, v_hire_date, v_salary;
189
190     WHILE c_employees%FOUND LOOP
191
```

STDIN

Input for the program (Optional)

Small Number: 10

Large Number: 20

Number of employees in department 50: 2

There are vacancies in department 50.

Number of employees in department 50: 2

Vacancies available: 43

Employee ID	Full Name	Job Title	Hire Date	Salary
-------------	-----------	-----------	-----------	--------

110	John Doe	IT_PROG	10-JAN-22	60000
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150	Alice Johnson	HR_REP	20-MAR-20	45000
-----	---------------	--------	-----------	-------

Employee ID: 110

Employee Name: John Doe

Department Name: Human Resources

Employee ID: 122

Employee Name: Jane Smith

Department Name: Human Resources

Employee ID: 150

Employee Name: Alice Johnson

Department Name: Information Technology

```

219 DBMS_OUTPUT.PUT_LINE('Employee ID: ' || emp_record.employee_id);
220 DBMS_OUTPUT.PUT_LINE('Employee Name: ' || emp_record.employee_name);
221 DBMS_OUTPUT.PUT_LINE('Department Name: ' || NVL(emp_record.department_name, 'No Department'));
222 DBMS_OUTPUT.PUT_LINE('-----');
223
224 FETCH emp_cursor INTO emp_record;
225 END LOOP;
226
227 CLOSE emp_cursor;
228 END;
229 /
230
231 -- PROGRAM 13: Display job IDs, titles, and minimum salaries of all jobs.
232 DECLARE
233 CURSOR job_cursor IS
234     SELECT job_id, job_title, min_salary
235     FROM jobs; -- Assuming a jobs table exists
236
237 job_record job_cursor%ROWTYPE;
238 BEGIN
239 OPEN job_cursor;
240 FETCH job_cursor INTO job_record;
241
242 WHILE job_cursor%FOUND LOOP
243     DBMS_OUTPUT.PUT_LINE('Job ID: ' || job_record.job_id);
244     DBMS_OUTPUT.PUT_LINE('Job Title: ' || job_record.job_title);
245     DBMS_OUTPUT.PUT_LINE('Minimum Salary: ' || job_record.min_salary);
246     DBMS_OUTPUT.PUT_LINE('-----');
247
248     FETCH job_cursor INTO job_record;
249 END LOOP;
250
251 CLOSE job_cursor;
252 END;
253 /

```

STDIN

Input for the program (Optional)

Value of myvariable2: 200

Salary adjusted for employee with ID 122.

Employee Name: Alice

Small Number: 10

Large Number: 20

Number of employees in department 50: 2

There are vacancies in department 50.

Number of employees in department 50: 2

Vacancies available: 43

Employee ID	Full Name	Job Title	Hire Date	Salary
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Department Name: Human Resources

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