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Mata Kuliah : Database Design and Management (Praktikum)

Vocabulary

Identify the vocabulary word for each definition below:

WHILE Loops	Repeats a sequence of statements until the controlling condition is no longer TRUE.
FOR Loops	Repeats a sequence of statements until a set number of iterations have been completed.

Try It / Solve It

1. Write a PL/SQL block to display the country_id and country_name values from the COUNTRIES table for country_id whose values range from 51 through 55. Use a WHILE loop. Increment a variable from 51 through 55. Test your variable to see when it reaches 55. EXIT the loop after you have displayed the 5 countries.

Answer:

```
declare
  v_name    wf_countries.country_name%type;
  v_country_id    wf_countries.country_id%type := 51;
begin
  select country_name, country_id into v_name, v_country_id
  from wf_countries
  where country_id = v_country_id;
  while v_country_id <= 55 loop
    dbms_output.put_line( 'country name : ' || v_name || ' , country id : ' || v_country_id);
    v_country_id := v_country_id + 1;
  end loop;
end;</pre>
```

2. Write a PL/SQL block to display the country_id and country_name values from the COUNTRIES table for country_id whose values range from 51 through 55 *in the reverse order*. Use a FOR loop.

Answer:

```
declare
  v_name     wf_countries.country_name%type;
  v_country_id     wf_countries.country_id%type := 51;
begin
  for i in reverse v_country_id..55 loop
    select country_name, country_id into v_name, v_country_id
    from wf_countries
    where country_id = i;
    dbms_output.put_line('country name : ' || v_name || ', country id : ' || v_country_id);
    end loop;
end;
```

3. Execute the following statements to build a new emps table.

DROP TABLE new_emps;

CREATE TABLE new_emps AS SELECT * FROM employees;

ALTER TABLE new_emps ADD stars VARCHAR2(50);

a. Create a PL/SQL block that inserts an asterisk in the stars column for every whole \$1,000 of an employee's salary. For example, if an employee has salary of \$7,800, the string "*****" would be inserted, and, if an employee has salary of \$3,100, the string "***" would be inserted. Use the following code as a starting point.

DECLARE

END;

Answer:

```
declare
v empno
                      new_emps.employee_id%type :=&id;
                      new_emps.stars%type := null;
v_asterisk
v sal in thousands
                      new emps.salary%type;
begin
select NVL(TRUNC(salary/1000), 0) into v sal in thousands
from new emps
where employee id = v empno;
dbms_output.put('salary id ' || v_empno || ' : ');
for i in 1..v sal in thousands loop
  dbms output.put('*');
end loop;
dbms_output.new_line;
update new_emps
set stars = v asterisk
where employee id = v empno;
```

b. Test your code using employee_ids 124 and 142, then confirm the results.

Answer:



