

8-3: Passing Parameters

Vocabulary

- 1.OUT Parameter
- 2.IN Parameter
- 3.NAMED Notation
- 4.Combination Notation
- 5.Positional Notation
- 6.IN OUT Parameter

Try It / Solve It

1.

—IN-DEFAULT si nu se poate modifica

— OUT

— IN OUT

2.

A.

```
CREATE OR REPLACE PROCEDURE find_area_pop(p_country_id IN
wf_countries.country_id%TYPE,
```

```
p_name OUT VARCHAR2,p_population OUT NUMBER) AS
```

```
BEGIN
```

```
SELECT country_name, population INTO p_name,p_population FROM wf_countries WHERE
country_id=p_country_id;
```

```
EXCEPTION
```

```
WHEN NO_DATA_FOUND THEN
```

```
DBMS_OUTPUT.PUT_LINE('No data found');
```

```
END;
```

B.

DECLARE

v_name wf_countries.country_name%TYPE;

v_pop number;

BEGIN

find_area_pop(2,v_name,v_pop);

DBMS_OUTPUT.PUT_LINE(v_name||' '||v_pop);

END;

C.

CREATE OR REPLACE PROCEDURE find_area_pop(p_country_id IN
wf_countries.country_id%TYPE, p_name OUT VARCHAR2, p_population OUT
NUMBER,p_densi IN OUT NUMBER)

AS

v_area wf_countries.area%TYPE;

BEGIN

SELECT country_name, population,area INTO p__name, p_population,v_area FROM
WF_countries WHERE country_id = p_country_id;

p_densi := (p_population / v_area);

EXCEPTION

WHEN NO_DATA_FOUND THEN

DBMS_OUTPUT.PUT_LINE('No data found');

END;

D.

DECLARE

v_name wf_countries.country_name%TYPE;

v_pop wf_countries.population%TYPE;

v_density number;

BEGIN

find_area_pop(2,v_name,v_pop,v_density);

DBMS_OUTPUT.PUT_LINE(v_namell' ||v_pop||' ||v_density);

END;

3.

CREATE OR REPLACE PROCEDURE square(p_nr IN OUT INTEGER) AS

BEGIN

p_nr:=p_nr*p_nr;

EXCEPTION

WHEN OTHERS THEN

DBMS_OUTPUT.PUT_LINE('error');

END;

DECLARE

v_nr integer:=4;

BEGIN

square(v_nr);

DBMS_OUTPUT.PUT_LINE('squared: ' || v_nr);

END;

4.

—IN

— OUT

— IN OUT

A.

DECLARE

v_name wf_countries.country_name%TYPE;

v_pop wf_countries.population%TYPE;

v_density number;

BEGIN

find_area_pop(2, p_name=> v_name,p_population=>v_pop,p_density=>v_density);

DBMS_OUTPUT.PUT_LINE(v_name||' '||v_pop||' '||v_density);

END;

B.

find_area_pop(p_country_id=>2,p_name=>v_name,v_pop,v_density);—error first position

C.

find_area_pop(2,v_name,p_population=>v_pop,p_density=>v_density);

5.

flexibility when passing arguments

p_n NUMBER DEFAULT 5 SAU p_n NUMBER:=5

6.

CREATE OR REPLACE PROCEDURE find_area_pop(p_country_id IN
wf_countries.country_id%TYPE DEFAULT 40, p_name OUT VARCHAR2, p_population OUT
NUMBER,p_densi IN OUT NUMBER)

AS

v_area wf_countries.area%TYPE;

BEGIN

SELECT country_name, population,area INTO p_name, p_population,v_area FROM WF_countries
WHERE country_id = p_country_id;

p_densi := (p_population / v_area);

EXCEPTION

WHEN NO_DATA_FOUND THEN

DBMS_OUTPUT.PUT_LINE('No data found');

END;

DECLARE

v_name wf_countries.country_name%TYPE;

v_pop wf_countries.population%TYPE;

v_density number;

BEGIN

find_area_pop(40,v_name,v_pop,v_density);

DBMS_OUTPUT.PUT_LINE(v_name||' '||v_pop||' '||v_density);

END;