5-4: Cursors with Parameters

Try It/Solve It

1.

—you can return different active sets depending on the parameters

2.

```
DECLARE

 CURSOR c_country(p_region_id NUMBER) IS SELECT country_name,area FROM wf_countries WHERE region_id=region_id;

v_country_rec c_country%ROWTYPE;

BEGIN

 OPEN c_country(5);

 LOOP

  FETCH c_country INTO v_country_rec;

  EXIT WHEN c_country%NOTFOUND;

  DBMS_OUTPUT.PUT_LINE ('Country: ' ||v_country_rec.country_name || ',area : '|| v_country_rec.area);

 END LOOP;

 CLOSE c_country;

 OPEN c_country(30);

 LOOP

  FETCH c_country INTO v_country_rec;

  EXIT WHEN c_country%NOTFOUND;

  DBMS_OUTPUT.PUT_LINE ('Country: ' ||v_country_rec.country_name || ',area : '|| v_country_rec.area);

 END LOOP;

 CLOSE c_country;

END;
```

3.

```
DECLARE

 CURSOR c_country(p_region_id NUMBER) IS SELECT country_name,area FROM wf_countries
WHERE region_id=region_id;

v_country_rec c_country%ROWTYPE;

BEGIN

FOR v_country_rec IN c_country(5) LOOP

  EXIT WHEN c_country%NOTFOUND;

  DBMS_OUTPUT.PUT_LINE ('Country: ' ||v_country_rec.country_name || ',area : '||
v_country_rec.area);

 END LOOP;

 DBMS_OUTPUT.PUT_LINE ('30');

FOR v_country_rec IN c_country(30) LOOP

  EXIT WHEN c_country%NOTFOUND;

  DBMS_OUTPUT.PUT_LINE ('Country: ' ||v_country_rec.country_name || ',area : '||
v_country_rec.area);

 END LOOP;

END;


4.

DECLARE

 CURSOR c_country(p_region_id NUMBER,p_area NUMBER) IS SELECT country_name,area
FROM wf_countries  WHERE region_id=region_id AND area>p_area;

v_country_rec c_country%ROWTYPE;

BEGIN

FOR v_country_rec IN c_country(5,200000) LOOP

  EXIT WHEN c_country%NOTFOUND;

  DBMS_OUTPUT.PUT_LINE ('Country: ' ||v_country_rec.country_name || ',area : '||
v_country_rec.area);

 END LOOP;

 DBMS_OUTPUT.PUT_LINE ('30');
```

```
FOR v_country_rec IN c_country(30,1000000) LOOP

  EXIT WHEN c_country%NOTFOUND;

  DBMS_OUTPUT.PUT_LINE ('Country: ' ||v_country_rec.country_name || ',area : '||
v_country_rec.area);

 END LOOP;

END;
```

5.

```
DECLARE

 CURSOR c_country(p_region_id NUMBER,p_area NUMBER) IS SELECT region_id,area FROM
wf_countries  WHERE region_id=region_id AND area>p_area;

v_country_rec c_country%ROWTYPE;

BEGIN OPEN c_country(5,200000);

LOOP

FETCH c_country INTO v_country_rec;

  EXIT WHEN c_country%NOTFOUND;

  DBMS_OUTPUT.PUT_LINE ('Region: ' || v_country_rec.region_id || ' Minimum area : '||
v_country_rec.area);

 END LOOP;

CLOSE c_country;

 DBMS_OUTPUT.PUT_LINE ('30');

OPEN c_country(30,500000);

LOOP

FETCH c_country INTO v_country_rec;

  EXIT WHEN c_country%NOTFOUND;

  DBMS_OUTPUT.PUT_LINE ('Region: ' || v_country_rec.region_id || ' Minimum area : '||
v_country_rec.area);

 END LOOP;

CLOSE c_country;

END;
```