

## 5-2: Using Explicit Cursor Attributes

### Vocabulary

- 1.%ROWTYPE
- 2.RECORD
- 3.%ISOPEN
- 4.%ROWCOUNT
- 5.%NOTFOUND

### Try It/Solve It

1.

ROWTYPE -vă permit să declarați o singură variabilă pentru toate coloanele selectate dintr-un cursor(o inregistrare)

2.

DECLARE

Cursor wf\_countries\_cursor is

SELECT \* FROM wf\_countries

WHERE region\_id=5;

v\_countries\_record wf\_countries\_cursor%ROWTYPE;

BEGIN

OPEN wf\_countries\_cursor;

LOOP

FETCH wf\_countries\_cursor INTO v\_countries\_record;

EXIT WHEN wf\_countries\_cursor%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE(v\_countries\_record.country\_name || '-' ||  
v\_countries\_record.national\_holiday\_date || '-' || v\_countries\_record.national\_holiday\_name);

END LOOP;

```
CLOSE wf_countries_cursor;
```

```
END;
```

3.

```
DECLARE
```

```
Cursor emp_cursor is
```

```
SELECT * FROM employees
```

```
ORDER BY salary DESC;
```

```
v_emp_record emp_cursor%ROWTYPE;
```

```
BEGIN
```

```
OPEN emp_cursor;
```

```
LOOP
```

```
    FETCH emp_cursor INTO v_emp_record;
```

```
    EXIT WHEN emp_cursor%ROWCOUNT>6 OR emp_cursor%NOTFOUND;
```

```
    DBMS_OUTPUT.PUT_LINE(v_emp_record.first_name || '-' || v_emp_record.last_name || '-' ||  
v_emp_record.job_id || '-' || v_emp_record.salary );
```

```
END LOOP;
```

```
CLOSE emp_cursor;
```

```
END;
```

4.

```
emp_cursor%ROWCOUNT>21
```

5.

```
EXIT WHEN (emp_cursor%ROWCOUNT>21 OR) emp_cursor%NOTFOUND;
```

— arata cei 20 de employees dupa care va iesi din ciclu pentru ca intalneste NOTFOUND