



PL/SQL 반복문

begin 안에서 여러가지 동작을 한번에 수행할수 있다.

ex)swlect , update, delete, insert

1. LOOP 문
2. for 문
3. 2중 for 문

1. LOOP 문

```
declare
v_counter number:=0;begin
  for i in 1..3

  loop
    dbms_output.put_line('welcome ' ||i);
  end loop;

end;
begin
  loop                                ##반복문 시작
    v_counter:=v_counter+1;
    dbms_output.put_line('welcome ' ||v_counter);

    exit when v_counter=3;            ##종료 조건
```

```

end loop;                                ##반복문 종료

end;

----- if문을 통한 반복종지 -----

declare
v_counter number:=0;
begin
  loop
    v_counter:=v_counter+1;
    dbms_output.put_line('welcome ' ||v_counter);

    if v_counter=3 then
      exit;
    end if;

  end loop;
end;

----- if문을 통한 반복종지 22 -----

declare
v_empno number:=100;
v_first_name employees.first_name%type ;
begin
  loop

    exit when v_empno>102;

    select first_name into v_first_name
    from employees
    where employee_id = v_empno;

    dbms_output.put_line(v_empno ||' '|| v_first_name);

```

```

        v_empno:=v_empno+1;

    end loop;
end;

```

2. for 문

```

----- 기본 문법
begin
    for i in 1..3

        loop
            dbms_output.put_line('welcome '||i);
        end loop;

    end;

----- 3~5까지
begin
    for i in 3..5

        loop
            dbms_output.put_line('welcome '||i);
        end loop;

    end;

----- 321 reverse 반대
begin
    for i in reverse 1..3

        loop
            dbms_output.put_line('welcome '||i);
        end loop;

    end;

----- 사사오입 5번

```

```

begin
  for i in 1..9/2

  loop
    dbms_output.put_line('welcome '||i);
  end loop;

end;

```

3. 2중 for 문

```

----- 2중 for 문
declare
v_name varchar2(200);
begin
for i in 100..102
  loop
    select first_name||' '||last_name
    into v_name
    from
    employees
    where employee_id=i;

    dbms_output.put_line(i||': '||v_name);

  end loop;
end;

```

```

----- 2중 for 문 제C
declare
v_star varchar2(100);
begin
<<outer_loop>>    ##반복문에 이름 넣기
for i in 1..5
  loop

```

```
<<inner_loop>>
for j in 1..i
loop
v_star:=v_star||'*';
exit outer_loop when i=3 ;  ##이름 넣으면 inner for문 안
end loop inner_loop;
dbms_output.put_line(v_star);
v_star:=null;
end loop outer_loop;
end;
```