

Week 3 –Practical Activity

- Iterative Control - Loops

DECLARE

v_counter BINARY_INTEGER := 0;

BEGIN

LOOP

— increment loop counter by one

v_counter := v_counter + 1;

DBMS_OUTPUT.PUT_LINE ('v_counter = ' || v_counter);

— if exit condition yields TRUE exit the loop

IF v_counter = 5

THEN

EXIT;

END IF;

END LOOP;

— control resumes here

DBMS_OUTPUT.PUT_LINE ('Done...');

END;

@@@

```
DECLARE

v_counter BINARY_INTEGER := 0;

BEGIN

LOOP

— increment loop counter by one

v_counter := v_counter + 1;

— if exit condition yields TRUE exit the loop

IF v_counter = 5

THEN

EXIT;

END IF;

DBMS_OUTPUT.PUT_LINE ('v_counter = ' || v_counter);

END LOOP;

— control resumes here

DBMS_OUTPUT.PUT_LINE ('Done...');

END;
```

@@@@@@@@

```
DECLARE

v_counter BINARY_INTEGER := 0;
```

BEGIN

LOOP

— increment loop counter by one

v_counter := v_counter + 1;

DBMS_OUTPUT.PUT_LINE ('v_counter = ' || v_counter);

— if exit condition yields TRUE exit the loop

EXIT WHEN v_counter = 5;

END LOOP;

— control resumes here

DBMS_OUTPUT.PUT_LINE ('Done...');

END;

@@@@@@@@

DECLARE

v_counter NUMBER := 5;

BEGIN

WHILE v_counter < 5

LOOP

DBMS_OUTPUT.PUT_LINE ('v_counter = ' || v_counter);

— decrement the value of v_counter by one

v_counter := v_counter - 1;

END LOOP;

END;

@@@@@@@@@@@@@@@@

Numeric For Loop

BEGIN

FOR v_counter IN 1..5

LOOP

DBMS_OUTPUT.PUT_LINE ('v_counter = ' || v_counter);

END LOOP;

END;

@@@@@@@@@@@@

BEGIN

FOR v_counter IN 1..5

LOOP

DBMS_OUTPUT.PUT_LINE ('v_counter = ' || v_counter);

END LOOP;

DBMS_OUTPUT.PUT_LINE ('Counter outside the loop is

```
'|v_counter);
```

```
END;
```

```
@@@@@@@@@@@@@@@@@@@@
```

```
BEGIN
```

```
FOR v_counter IN REVERSE 1..5
```

```
LOOP
```

```
DBMS_OUTPUT.PUT_LINE ('|v_counter);
```

```
END LOOP;
```

```
END;
```

```
@@@@@@@@@@@@@@@@@@@@
```

```
BEGIN
```

```
FOR v_counter IN 1..5
```

```
LOOP
```

```
DBMS_OUTPUT.PUT_LINE ('|v_counter);
```

```
EXIT WHEN v_counter = 3;
```

```
END LOOP;
```

```
END;
```

@@@@@@@@@@@@@@@@@@@@

Nested Loop

DECLARE

v_counter1 BINARY_INTEGER := 0;

v_counter2 BINARY_INTEGER;

BEGIN

WHILE v_counter1 < 3

LOOP

DBMS_OUTPUT.PUT_LINE ('v_counter1: ' || v_counter1);

v_counter2 := 0;

LOOP

DBMS_OUTPUT.PUT_LINE (' v_counter2: ' || v_counter2);

v_counter2 := v_counter2 + 1;

EXIT WHEN v_counter2 >= 2;

END LOOP;

v_counter1 := v_counter1 + 1;

END LOOP;

END;

```
v_counter NUMBER := 1;
BEGIN
WHILE v_counter < 5
LOOP
DBMS_OUTPUT.PUT_LINE ('v_counter = ' || v_counter);
— decrement the value of v_counter by one
v_counter := v_counter - 1;
END LOOP;
END;
```

@@@@@@@@@@@@@@@@@@@@

```
DECLARE
v_counter NUMBER := 1;
BEGIN
WHILE v_counter < 5
LOOP
DBMS_OUTPUT.PUT_LINE ('v_counter = ' || v_counter);
— increment the value of v_counter by one
v_counter := v_counter + 1;
END LOOP;
END;
```

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

DECLARE

v_counter NUMBER := 1;

BEGIN

WHILE v_counter <= 5

LOOP

DBMS_OUTPUT.PUT_LINE ('| |v_counter);

IF v_counter = 2

THEN

EXIT;

END IF;

v_counter := v_counter + 1;

END LOOP;

END;

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@