**4.1 PROGRAMS:**

**IF ELSIF ELSE CLAUSE:**

DECLARE

v\_myage NUMBER := 31;

BEGIN

IF v\_myage < 11 THEN

DBMS\_OUTPUT.PUT\_LINE('I am a child');

ELSIF v\_myage < 20 THEN

DBMS\_OUTPUT.PUT\_LINE('I am young');

ELSIF v\_myage < 30 THEN

DBMS\_OUTPUT.PUT\_LINE('I am in my twenties');

ELSIF v\_myage < 40 THEN

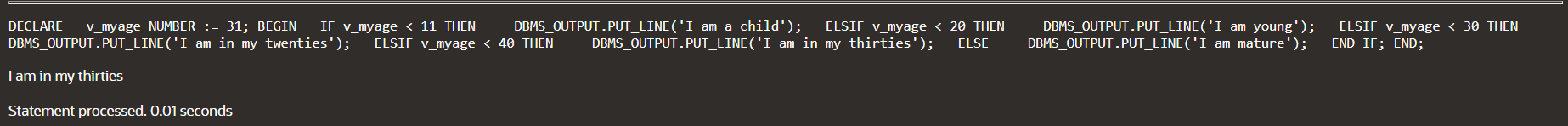
DBMS\_OUTPUT.PUT\_LINE('I am in my thirties');

ELSE

DBMS\_OUTPUT.PUT\_LINE('I am mature');

END IF;

END;



**IF AND ELSE CLAUSE:**

DECLARE

v\_myage NUMBER := 31;

BEGIN

IF v\_myage < 11 THEN

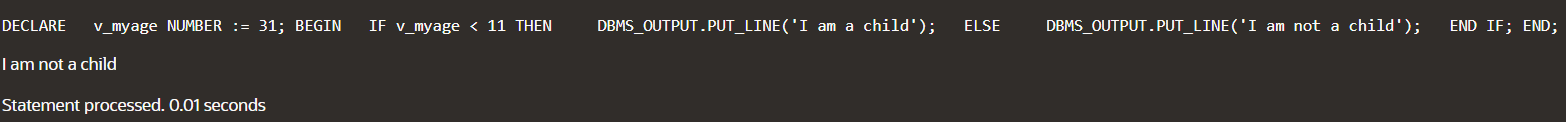
DBMS\_OUTPUT.PUT\_LINE('I am a child');

ELSE

DBMS\_OUTPUT.PUT\_LINE('I am not a child');

END IF;

END;



DECLARE

v\_myage NUMBER := 31;

BEGIN

IF v\_myage < 11 THEN

DBMS\_OUTPUT.PUT\_LINE('I am a child');

END IF;

END;

**(4.2)CASE STATEMENT:**

DECLARE

v\_num NUMBER := 15;

v\_txt VARCHAR2(50);

BEGIN

CASE v\_num

WHEN 20 THEN v\_txt := 'number equals 20';

WHEN 17 THEN v\_txt := 'number equals 17';

WHEN 15 THEN v\_txt := 'number equals 15';

WHEN 13 THEN v\_txt := 'number equals 13';

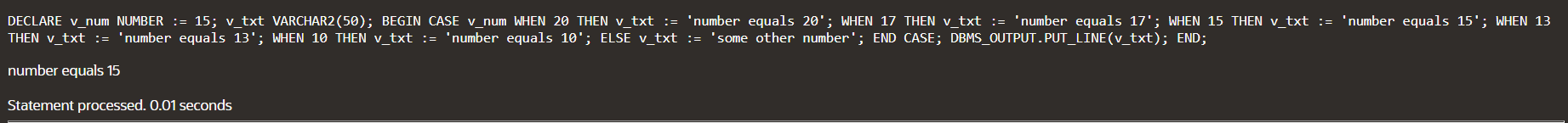
WHEN 10 THEN v\_txt := 'number equals 10';

ELSE v\_txt := 'some other number';

END CASE;

DBMS\_OUTPUT.PUT\_LINE(v\_txt);

END;



CASE STATEMENT:

DECLARE

v\_grade CHAR(1) := 'A';

v\_appraisal VARCHAR2(20);

BEGIN

v\_appraisal :=

CASE

WHEN v\_grade = 'A' THEN 'Excellent'

WHEN v\_grade IN ('B','C') THEN 'Good'

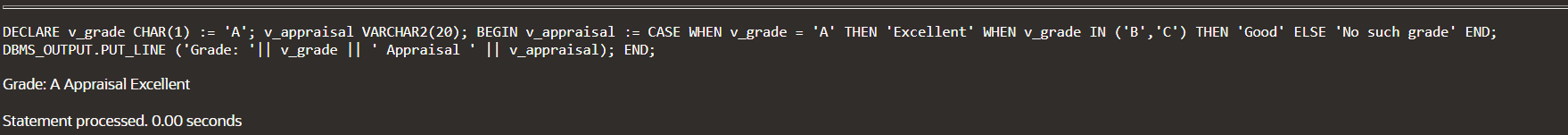
ELSE 'No such grade'

END;

DBMS\_OUTPUT.PUT\_LINE ('Grade: '|| v\_grade || ' Appraisal '

|| v\_appraisal);

END;



**(4.3)**

**EXIT STATEMENT:**

DECLARE

v\_counter NUMBER := 1;

BEGIN

LOOP

DBMS\_OUTPUT.PUT\_LINE('Counter is ' || v\_counter);

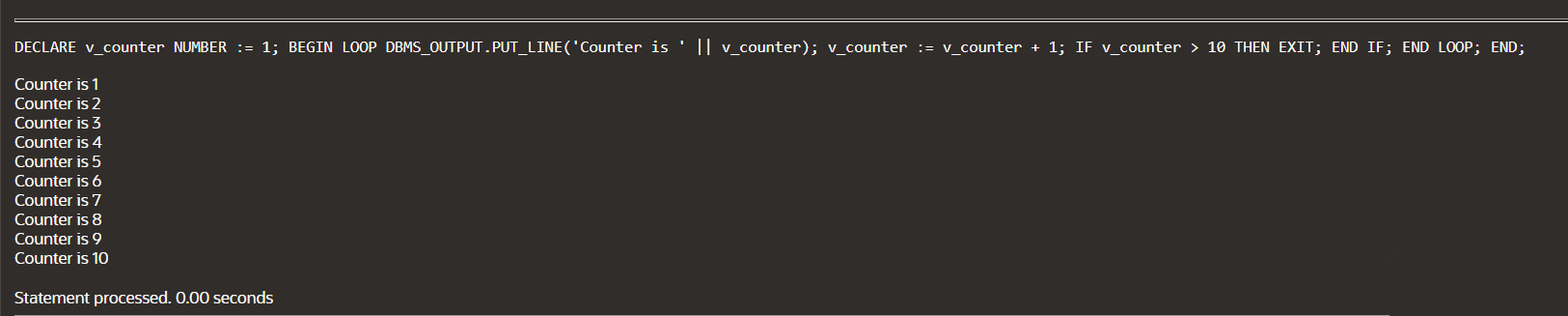
v\_counter := v\_counter + 1;

IF v\_counter > 10 THEN EXIT;

END IF;

END LOOP;

END;



**EXIT WHEN STATEMENT:**

DECLARE

v\_counter NUMBER := 1;

BEGIN

LOOP

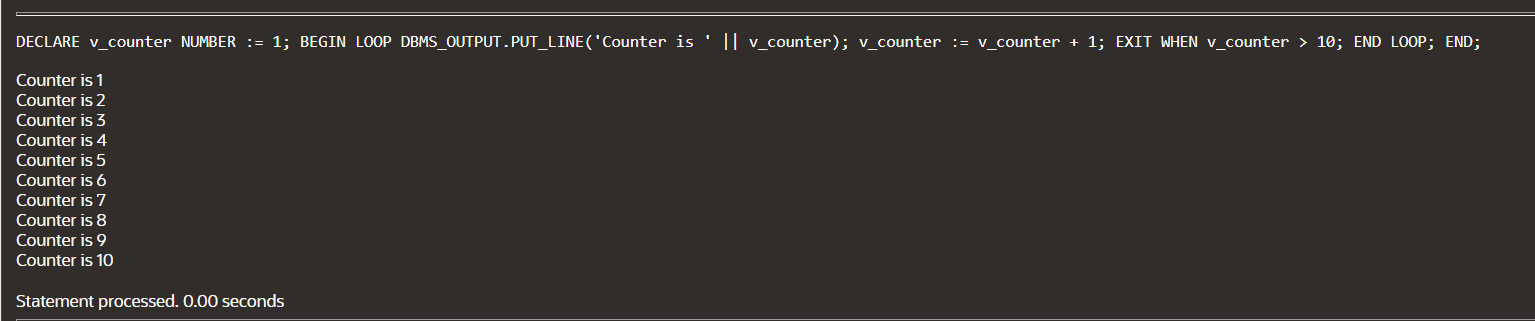
DBMS\_OUTPUT.PUT\_LINE('Counter is ' || v\_counter);

v\_counter := v\_counter + 1;

EXIT WHEN v\_counter > 10;

END LOOP;

END;

****

WHILE LOOP:

DECLARE

v\_DEPARTMENT\_ID PERSON2.DEPARTMENT\_ID%TYPE;

v\_counter NUMBER := 1;

BEGIN

SELECT MAX(DEPARTMENT\_ID) INTO v\_DEPARTMENT\_ID FROM PERSON2

WHERE DOB = 2006;

WHILE v\_counter <= 3 LOOP

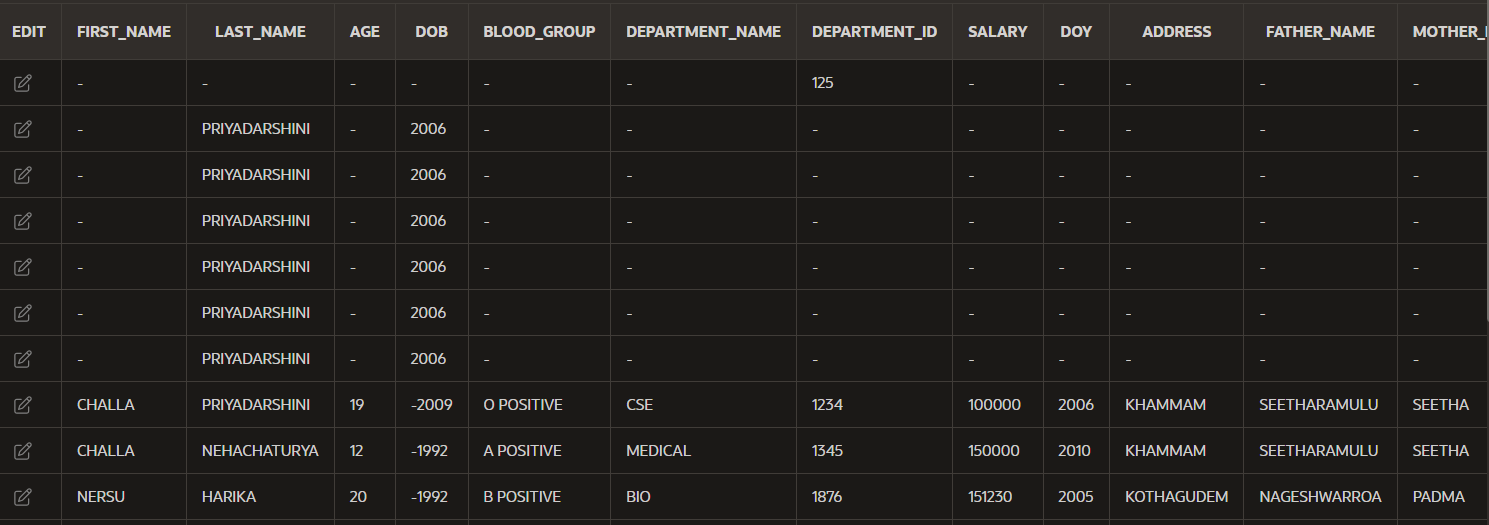
INSERT INTO PERSON2(DEPARTMENT\_ID, LAST\_NAME, DOB)

VALUES((v\_DEPARTMENT\_ID + v\_counter), 'PRIYADARSHINI', 2006);

v\_counter := v\_counter + 1;

END LOOP;

END;



FOR LOOP:

DECLARE

v\_DEPARTMENT\_ID PERSON2.DEPARTMENT\_ID%TYPE;

BEGIN

SELECT MAX(DEPARTMENT\_ID) INTO v\_DEPARTMENT\_ID FROM PERSON2

WHERE DOB = 2006;

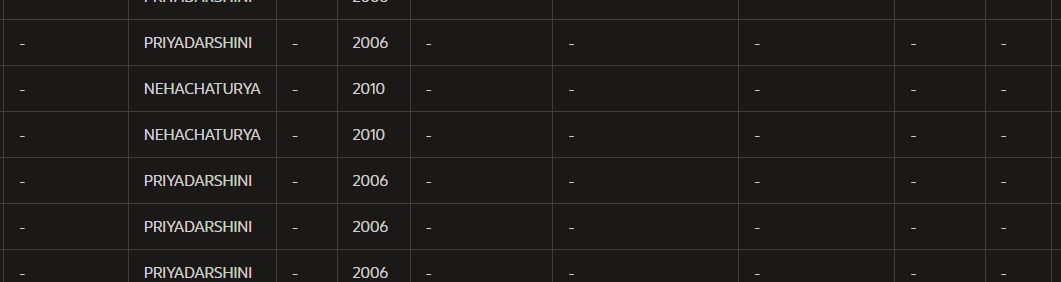
FOR i IN 1..2 LOOP

INSERT INTO PERSON2(DEPARTMENT\_ID,LAST\_NAME,DOB)

VALUES((v\_DEPARTMENT\_ID + i), 'NEHACHATURYA', 2010);

END LOOP;

END;



**NESTED LOOP:**

BEGIN

FOR v\_outerloop IN 1..3 LOOP

FOR v\_innerloop IN REVERSE 1..5 LOOP

DBMS\_OUTPUT.PUT\_LINE('Outer loop is: ' ||

v\_outerloop ||

' and inner loop is: ' ||

v\_innerloop);

END LOOP;

END LOOP;

END;

