**Упражнение 5**

**set serveroutput on**

DECLARE

myage number:=31;

BEGIN

IF myage < 11

THEN

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

END IF;

END;



DECLARE

myage number:=31;

BEGIN

IF 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

myage number:=31;

BEGIN

IF myage < 11

THEN

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

ELSIF myage < 20

THEN

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

ELSIF myage < 30

THEN

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

ELSIF myage < 40

THEN

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

ELSE

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

END IF;

END;



**Пример с NULL**

DECLARE

myage number;

BEGIN

IF myage < 11

THEN

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

ELSE

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

END IF;

END;



SET VERIFY OFF

DECLARE

grade CHAR(1) := UPPER('&grade');

appraisal VARCHAR2(20);

BEGIN

appraisal :=

CASE grade

WHEN 'A' THEN 'Excellent'

WHEN 'B' THEN 'Very Good'

WHEN 'C' THEN 'Good'

ELSE 'No such grade'

END;

DBMS\_OUTPUT.PUT\_LINE ('Grade: '|| grade || ' Appraisal ' || appraisal);

END;



DECLARE

grade CHAR(1) := UPPER('&grade');

appraisal VARCHAR2(20);

BEGIN

appraisal :=

CASE

WHEN grade = 'A' THEN 'Excellent'

WHEN grade IN ('B','C') THEN 'Good'

ELSE 'No such grade'

END;

DBMS\_OUTPUT.PUT\_LINE ('Grade: '|| grade || ' Appraisal ' || appraisal);

END;



DECLARE

deptid NUMBER;

deptname VARCHAR2(20);

emps NUMBER;

mngid NUMBER:= 108;

BEGIN

CASE mngid

WHEN 108 THEN

SELECT department\_id, department\_name INTO deptid, deptname

FROM departments WHERE manager\_id=108;

SELECT count(\*) INTO emps FROM employees WHERE

department\_id=deptid;

WHEN 200 THEN

SELECT department\_id, department\_name INTO deptid, deptname

FROM departments WHERE manager\_id=200;

SELECT count(\*) INTO emps FROM employees WHERE

department\_id=deptid;

WHEN 121 THEN

SELECT department\_id, department\_name INTO deptid, deptname

FROM departments WHERE manager\_id=121;

SELECT count(\*) INTO emps FROM employees WHERE

department\_id=deptid;

END CASE;

DBMS\_OUTPUT.PUT\_LINE ('You are working in the '|| deptname||' department. There are '||emps ||' employees in this department');

END;



**Преглед на данните в таблица locations**

select \* FROM locations;



----

DECLARE

v\_countryid locations.country\_id%TYPE := 'CA';

v\_loc\_id locations.location\_id%TYPE;

v\_counter NUMBER(2) := 1;

v\_new\_city locations.city%TYPE := 'Montreal';

BEGIN

SELECT MAX(location\_id) INTO v\_loc\_id FROM locations

WHERE country\_id = v\_countryid;

LOOP

INSERT INTO locations(location\_id, city, country\_id)

VALUES((v\_loc\_id + v\_counter), v\_new\_city, v\_countryid);

v\_counter := v\_counter + 1;

EXIT WHEN v\_counter > 3;

END LOOP;

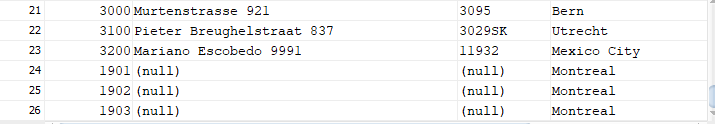
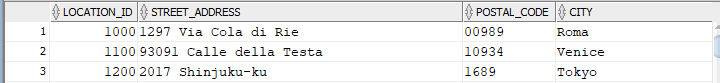
END;



--------

**Преглед на данните в таблица locations**

select \* FROM locations;



---

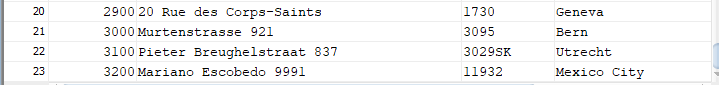
**Отказ от вмъкването на данни**

**rollback;**



**Преглед на данните в таблица locations**

SELECT \* FROM locations;



-----

DECLARE

v\_countryid locations.country\_id%TYPE := 'CA';

v\_loc\_id locations.location\_id%TYPE;

v\_new\_city locations.city%TYPE := 'Montreal';

v\_counter NUMBER := 1;

BEGIN

SELECT MAX(location\_id) INTO v\_loc\_id FROM locations

WHERE country\_id = v\_countryid;

WHILE v\_counter <= 3 LOOP

INSERT INTO locations(location\_id, city, country\_id)

VALUES((v\_loc\_id + v\_counter), v\_new\_city, v\_countryid);

v\_counter := v\_counter + 1;

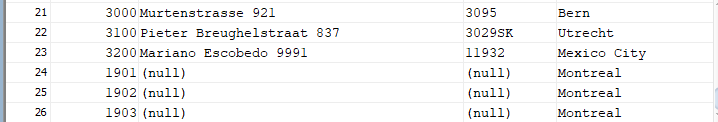
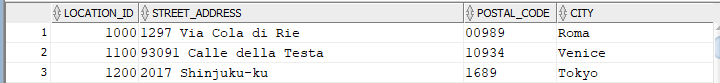
END LOOP;

END;



**Преглед на данните в таблица locations**

SELECT \* FROM locations;



---

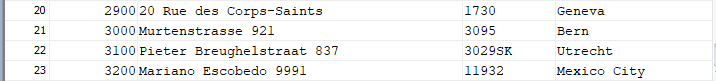
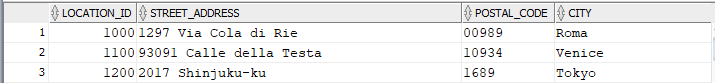
**Отказ от вмъкването на данни**

**ROLLBACK;**



**Преглед на данните в таблица locations**

Select \* FROM locations;



---

DECLARE

v\_countryid locations.country\_id%TYPE := 'CA';

v\_loc\_id locations.location\_id%TYPE;

v\_new\_city locations.city%TYPE := 'Montreal';

BEGIN

SELECT MAX(location\_id) INTO v\_loc\_id

FROM locations

WHERE country\_id = v\_countryid;

FOR i IN 1..3 LOOP

INSERT INTO locations(location\_id, city, country\_id)

VALUES((v\_loc\_id + i), v\_new\_city, v\_countryid );

END LOOP;

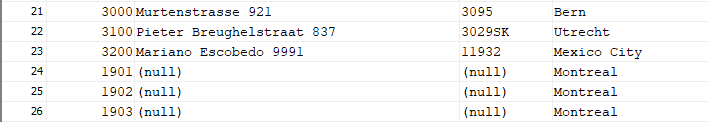
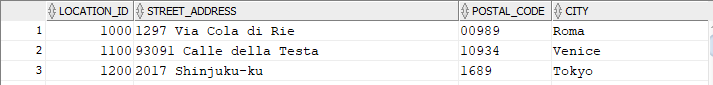
END;



**---**

**Преглед на данните в таблица locations**

Select \* FROM locations;



**Отказ от вмъкването на данни**

**ROLLBACK;**



DECLARE

v\_total SIMPLE\_INTEGER := 0;

BEGIN

FOR i IN 1..10 LOOP

v\_total := v\_total + i;

dbms\_output.put\_line ('Total is: '|| v\_total);

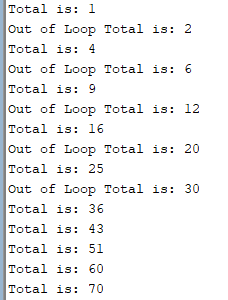
CONTINUE WHEN i > 5;

v\_total := v\_total + i;

dbms\_output.put\_line ('Out of Loop Total is: '|| v\_total);

END LOOP;

END;



DECLARE

v\_total NUMBER := 0;

BEGIN

<<BeforeTopLoop>>

FOR i IN 1..10 LOOP

v\_total := v\_total + 1;

dbms\_output.put\_line ('Total is: ' || v\_total);

FOR j IN 1..10 LOOP

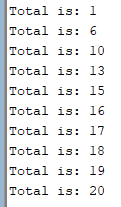
CONTINUE BeforeTopLoop WHEN i + j > 5;

v\_total := v\_total + 1;

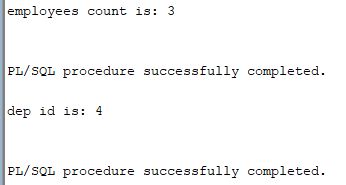
END LOOP;

END LOOP;

END two\_loop;



**Зад 1.** Изведете брой служители от зададен номер на отдел, ако номерът е > 30. Изведете съобщение при номер <=30.



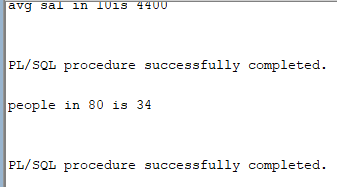
**Зад 2.** Задайте номер на отдел от клавиатурата. Ако номерът е:

- 10, изведете средната заплата за отдела

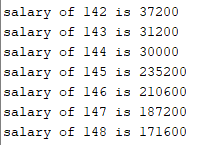
- 30, изведете сумата от заплати за отдела

- 80, изведете брой служители в отдела

В противен случай изведете въведения номер на отдел.



**Зад 3.** За служители от 142 до 148 изведете годишния доход с подходящи съобщения.



**Зад 4.** Намерете номера на регион Европа и вмъкнете ред с данни за България – **BG, Bulgaria** в таблица countries.

**Зад 5 .**Изведете

11

12

13

21

22

23

31

32

33

като използвате цикли за формирането на стойностите.

