

Task 5 done by Yergesh Bakytzhan

1. Напишите анонимный блок, в котором необходимо вывести в dbms_output сообщение 'Hello world!'.

declare

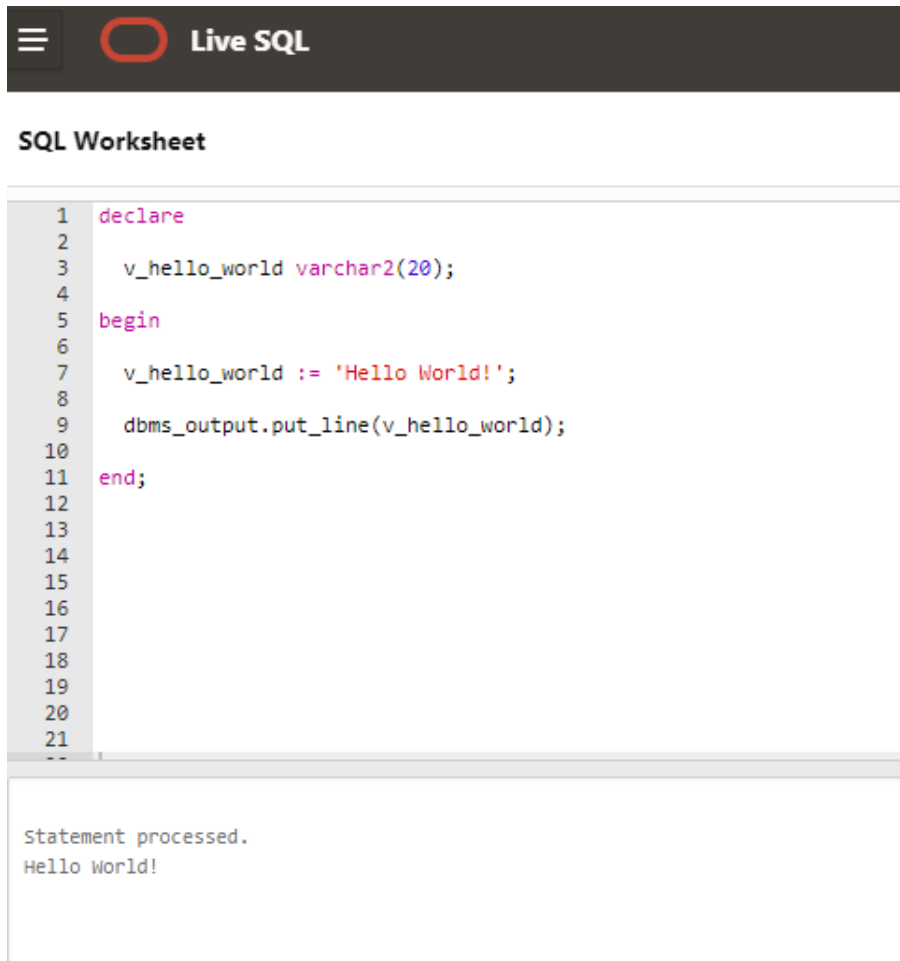
v_hello_world varchar2(20);

begin

v_hello_world := 'Hello World!';

dbms_output.put_line(v_hello_world);

end;



The screenshot shows a web-based SQL editor interface. At the top, there is a dark header bar with a hamburger menu icon, a red circle icon, and the text "Live SQL". Below this is a section titled "SQL Worksheet". The main area contains a code editor with a line number margin on the left (lines 1 to 21). The code is as follows:

```
1 declare
2
3   v_hello_world varchar2(20);
4
5 begin
6
7   v_hello_world := 'Hello World!';
8
9   dbms_output.put_line(v_hello_world);
10
11 end;
12
13
14
15
16
17
18
19
20
21
```

Below the code editor, there is a light gray box containing the output of the statement:

```
Statement processed.
Hello World!
```

2. Напишите анонимный блок, в котором необходимо вывести в dbms_output сообщение Hello и Ваше имя с помощью конкатенации.

declare

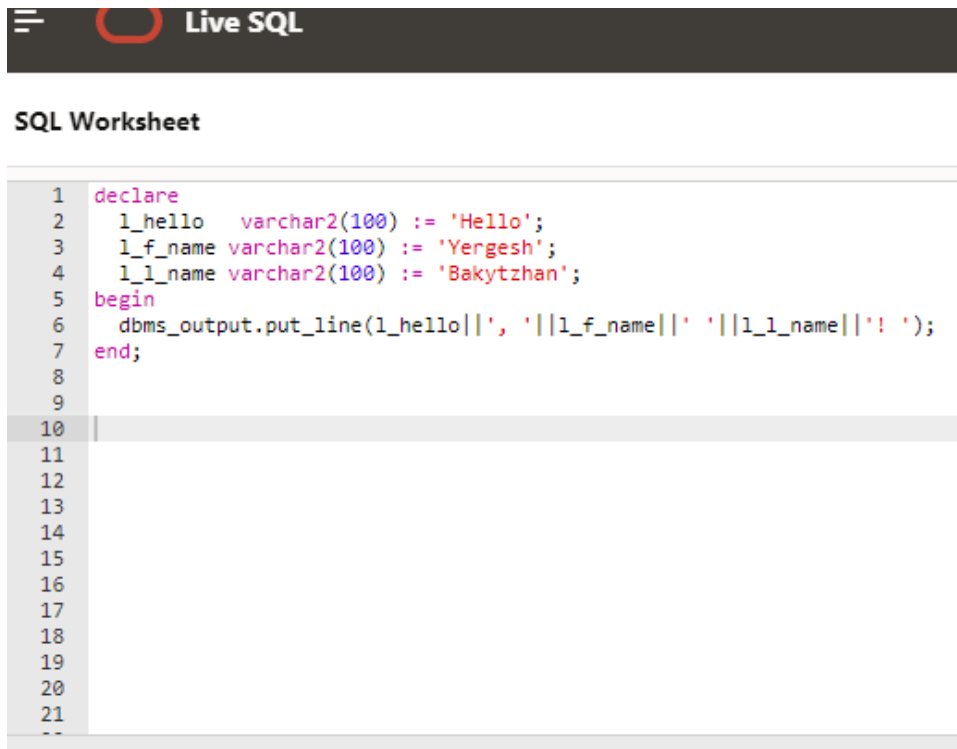
l_hello varchar2(100) := 'Hello';

```
l_f_name varchar2(100) := 'Yergesh';  
l_l_name varchar2(100) := 'Bakytzhan';
```

begin

```
dbms_output.put_line(l_hello||', '||l_f_name||' '||l_l_name||'! ');
```

end;



3. Напишите анонимный блок, который выводил бы вот такое изображение(ниже), где в центре - ваше имя.

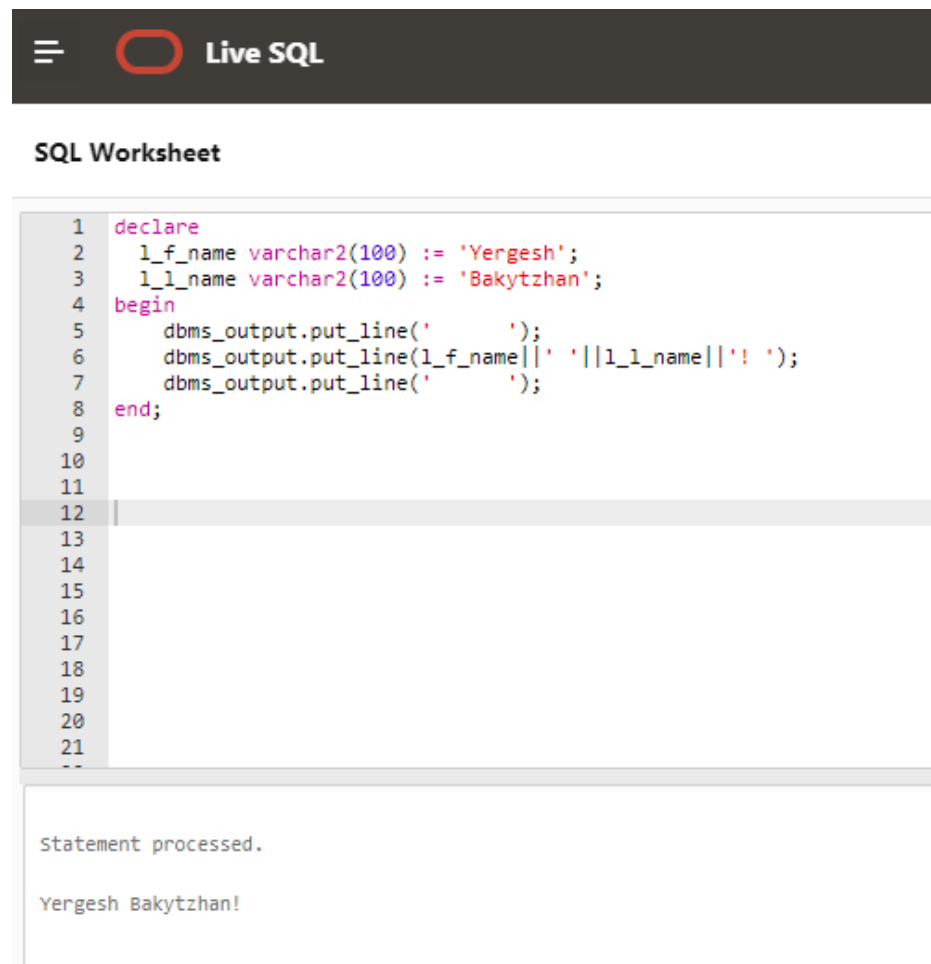
declare

```
l_f_name varchar2(100) := 'Yergesh';  
l_l_name varchar2(100) := 'Bakytzhan';
```

begin

```
dbms_output.put_line('  ');  
dbms_output.put_line(l_f_name||' '||l_l_name||'! ');  
dbms_output.put_line('  ');
```

end;



The image shows a screenshot of the 'Live SQL' web interface. At the top, there is a dark header with a menu icon and the text 'Live SQL'. Below this is a section titled 'SQL Worksheet'. The main area contains a PL/SQL block with the following code:

```
1 declare
2   l_f_name varchar2(100) := 'Yergesh';
3   l_l_name varchar2(100) := 'Bakytzhan';
4 begin
5   dbms_output.put_line(' ');
6   dbms_output.put_line(l_f_name||' '||l_l_name||'! ');
7   dbms_output.put_line(' ');
8 end;
```

The code is numbered from 1 to 21. Below the code editor, the output of the statement is displayed: 'Statement processed.' followed by 'Yergesh Bakytzhan!'.

4. Напишите анонимный блок, создайте в нем константу, в которую положите название отдела и переменную с суммой зарплат сотрудников отдела. Напишите запрос, в котором будут выбираться суммы зарплат отдела, а результат выведите на экран вида:

'Сумма заработных плат отдела '||переменная_отдела||' равняется '||переменная_зарплаты||' долларов'.

declare

CURSOR d_departments is

SELECT DISTINCT department_name FROM departments;

type d_list is varray (50) of departments.department_name%type;

name_list d_list := d_list();

```

CURSOR s_salary is
SELECT SUM(salary) as salary FROM employees GROUP BY department_id;

type s_list is varray (50) of employees.salary%type;

salary_list s_list := s_list();

d_counter integer := 0;

s_counter integer := 0;

a_counter integer := 0;

begin

FOR n IN d_departments LOOP

    d_counter := d_counter + 1;

    name_list.extend;

    name_list(d_counter) := n.department_name;

END LOOP;

FOR n IN s_salary LOOP

    s_counter := s_counter + 1;

    salary_list.extend;

    salary_list(s_counter) := n.salary;

END LOOP;

FOR n IN s_salary LOOP

    a_counter := a_counter + 1;

    dbms_output.put_line('Department:'||name_list(a_counter)||', '||'salary: '||
salary_list(a_counter));

END LOOP;

end;

```

SQL Worksheet

```
1 declare
2     CURSOR d_departments is
3         SELECT DISTINCT department_name FROM departments;
4     type d_list is varray (50) of departments.department_name%type;
5     name_list d_list := d_list();
6     CURSOR s_salary is
7         SELECT SUM(salary) as salary FROM employees GROUP BY department_id;
8     type s_list is varray (50) of employees.salary%type;
9     salary_list s_list := s_list();
10    d_counter integer := 0;
11    s_counter integer := 0;
12    a_counter integer := 0;
13 begin
14     FOR n IN d_departments LOOP
15         d_counter := d_counter + 1;
16         name_list.extend;
17         name_list(d_counter) := n.department_name;
18     END LOOP;
19     FOR n IN s_salary LOOP
20         s_counter := s_counter + 1;
21         salary_list.extend;
```

Statement processed.

Department:Sales, salary: 156400
Department:Control And Credit, salary: 6500
Department:Recruiting, salary: 20308
Department:Corporate Tax, salary: 58000
Department:IT Support, salary: 24900
Department:Government Sales, salary: 10000
Department:Retail Sales, salary: 7000
Department:Marketing, salary: 4400
Department:IT Helpdesk, salary: 19000
Department:Administration, salary: 28800
Department:Purchasing, salary: 51608
Department:Contracting, salary: 304500