

База данных: Oracle



#### Основные требования:

- Выполнение команд производится в терминале или в графическом редакторе
- Результат работы команды предоставляется в виде скриншота
- Оформление ведется в удобном текстовом редакторе

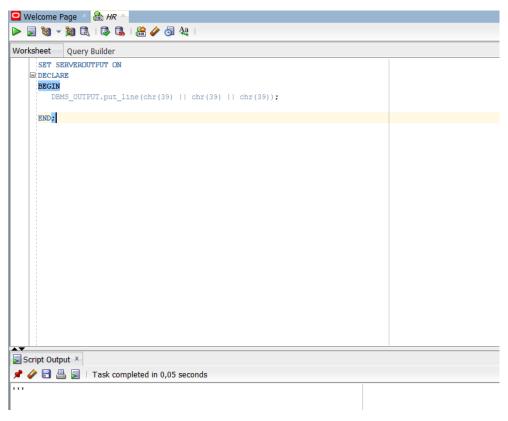
#### Центр дистанционного обучения





• Рабочие тетради должны предоставляться на проверку в формате .pdf

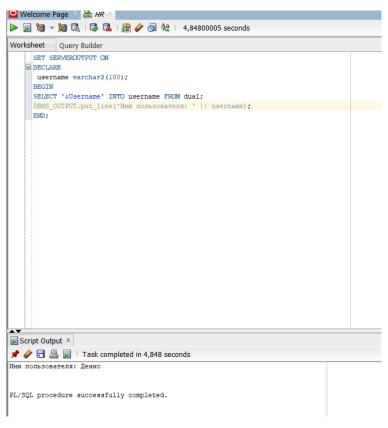






```
Worksheet Query Builder
     SET SERVEROUTPUT ON
   ■ DECLARE
     x varchar2(100);
     y varchar2(100);
     z varchar2(100);
     BEGIN
     'SELECT '«Введите значение' INTO x FROM dual;
     SELECT '&Введите значение' INTO у FROM dual;
     z := sqrt(x*x + y*y);
     DBMS OUTPUT.put line('Shavehue 1-ro kateta = ' || x);
     DBMS OUTPUT.put line('Shawehue 2-ro kateta = ' || y);
     DBMS_OUTPUT.put_line('3начение гипотенузы = ' || z);
     END;
Script Output ×
📌 🥟 🖥 🖺 📗 | Task completed in 2,707 seconds
Значение 1-го катета = 3
Значение 2-го катета = 4
Значение гипотенузы = 5
PL/SQL procedure successfully completed.
```







```
▶ 📕 👸 🔻 📓 🐧 | 🐉 👫 | 🤮 🏈 🐧 🔩 | 1,45700002 seconds
Worksheet Query Builder
     SET SERVEROUTPUT ON
    ■ DECLARE
      factorial varchar2(100);
      summup varchar2(100);
     SELECT '&Factorial' INTO factorial FROM dual;
     summup := 1;
             exit when 2 > factorial;
             summup := summup * factorial;
             factorial := factorial - 1;
     DBMS_OUTPUT.put_line('Факториал равен: ' || summup);
Script Output ×
🎤 🧼 🖥 🚇 📘 | Task completed in 1,457 seconds
Факториал равен: 3628800
PL/SQL procedure successfully completed.
```



```
SQL Worksheet History
Worksheet Query Builder
     set SERVEROUTPUT ON
    Declare
         var salary hr.employees.salary%type;
         var_name hr.employees.first_name%type;
         var_surname hr.employees.last_name%type;
         var_maxid hr.employees.employee_id%type;
         var_minid hr.employees.employee_id%type;
         Select max(employee_id) into var_maxid from employees;
         Select min(employee_id) into var_minid from employees;
             exit when var minid > var maxid;
             select salary into var_salary from hr.employees e where e.employee_id = var_minid;
            if var salary > 10000 then
             select first_name into var_name from hr.employees e where e.employee_id = var_minid;
             select last_name into var_surname from hr.employees_e where e.employee_id = var_minid;
            dbms_output.put_line(var_name || ' ' || var_surname);
            var_minid := var_minid + 1;
         end loop;
     end;
Script Output ×
📌 🥢 🖥 🚇 📘 | Task completed in 0,074 seconds
Eleni Zlotkey
Clara Vishney
Lisa Ozer
Ellen Abel
Michael Hartstein
Shelley Higgins
```



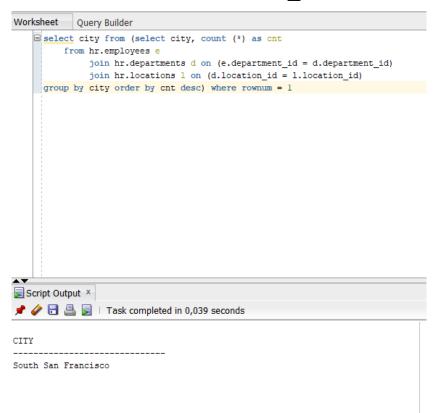
```
Worksheet
            Query Builder
     set SERVEROUTPUT ON
   Declare
          var depindex hr.employees.department id%type;
          var_selectindex hr.employees.department_id%type;
          var_index hr.employees.department_id%type;
         var_sumsalary hr.employees.salary%type;
         var_sum hr.employees.salary%type;
         var_salary hr.employees.salary%type;
          var_maxid hr.employees.employee_id%type;
         var_minid hr.employees.employee_id%type;
          var_counter hr.employees.employee_id%type;
     Begin
          Select max(employee_id) into var_maxid from employees;
          Select min(employee_id) into var_minid from employees;
         var_counter := var_minid;
         var_sum := 0;
          var_sumsalary := 0;
          var selectindex := 0;
          exit when var_counter > var_maxid;
          select department_id into var_depindex from employees e where e.employee_id = var_minid;
         if var depindex != var selectindex then
         var sum := 0;
              exit when var minid > var maxid;
              select department_id into var_index from employees e where e.employee_id = var_minid;
             if var_index = var_depindex then
              select salary into var_salary from hr.employees e where e.employee_id = var_minid;
              var sum := var sum + var salary;
              end if:
              var minid := var minid + 1;
          end loop;
          end if;
```





```
Worksheet Query Builder
           dr_maxia nr.emproyees.emproyee_raseype,
          var minid hr.employees.employee id%type;
          var counter hr.employees.employee id%type;
     Begin
          Select max(employee_id) into var_maxid from employees;
          Select min(employee_id) into var_minid from employees;
          var counter := var minid;
         var sum := 0;
          var_sumsalary := 0;
          var_selectindex := 0;
          exit when var counter > var maxid;
          select department_id into var_depindex from employees e where e.employee_id = var_minid;
          if var_depindex != var_selectindex then
         var_sum := 0;
         Loop
             exit when var minid > var maxid;
             select department id into var index from employees e where e.employee id = var minid;
             if var index = var depindex then
             select salary into var_salary from hr.employees e where e.employee_id = var_minid;
             var_sum := var_sum + var_salary;
             end if;
             var minid := var minid + 1;
          end loop;
         end if;
          var_counter := var_counter + 1;
          var minid := var counter;
         if var_sum > var_sumsalary then
          var_sumsalary := var_sum;
          var_selectindex := var_depindex;
          end if;
         end loop;
          dbms_output_put_line('Camein дорогостоящий отдел по получаемой зарплате сотрудников, с ID : ' || var_selectindex);
Script Output X
📌 🥟 🖥 🖺 🔋 🛘 Task completed in 0,141 seconds
Самый дорогостоящий отдел по получаемой зарплате сотрудников, с ID : 80
PL/SQL procedure successfully completed.
```







```
Worksheet Query Builder
    create table student
         id number(3),
        Name varchar2(25),
         Surname varchar2 (25),
         Otchestvo varchar2(25),
        Student_group varchar2(15),
        Year number (4),
         Studak varchar2(20),
         CONSTRAINT promo studak u UNIQUE (Studak)
     insert into student(id, Name, Surname, Otchestvo, Student group, Year, Studak)
     values(100, 'David', 'Chenkaleev', 'Borisovich', 'IVBO-04-21', 2021, '21I5678');
     insert into student(id, Name, Surname, Otchestvo, Student_group, Year, Studak)
     values(101, 'Ivan', 'Stoka', 'Pavlovich', 'IVBO-07-21', 2021, '21I1228');
     insert into student(id, Name, Surname, Otchestvo, Student_group, Year, Studak)
     values (102, 'Kate', 'Skorohodova', 'Alexandrovna', 'IVB0-07-21', 2021, '21I3344');
     insert into student (id, Name, Surname, Otchestvo, Student group, Year, Studak)
     values(103, 'Valentine', 'Yakushev', 'Petrovich', 'IVB0-07-20', 2020, '20I1717');
Script Output X
📌 🧼 🖥 🚇 📓 | Task completed in 0,088 seconds
Table STUDENT created.
1 row inserted.
1 row inserted.
1 row inserted.
1 row inserted.
```



```
Worksheet Query Builder
   create table studentgroup
         phone varchar2(20),
         email varchar2(25),
        student_group varchar2(10),
         Studak varchar2(20),
       CONSTRAINT promo_id_u2 UNIQUE (Studak),
         primary key (phone, email),
         foreign key (Studak) REFERENCES hr.student (Studak)
Script Output ×
🌶 🧳 🖥 🚇 📘 | Task completed in 0,07 seconds
Table STUDENTGROUP created.
```