1. Написать функцию для определения количества сотрудников в указанном регионе.

oracle

CREATE OR REPLACE FUNCTION employee\_count(

p\_office IN VARCHAR2

) RETURN NUMBER

IS

v\_e\_count NUMBER;

BEGIN

SELECT COUNT(\*)

INTO v\_e\_count

FROM SPERSON sp

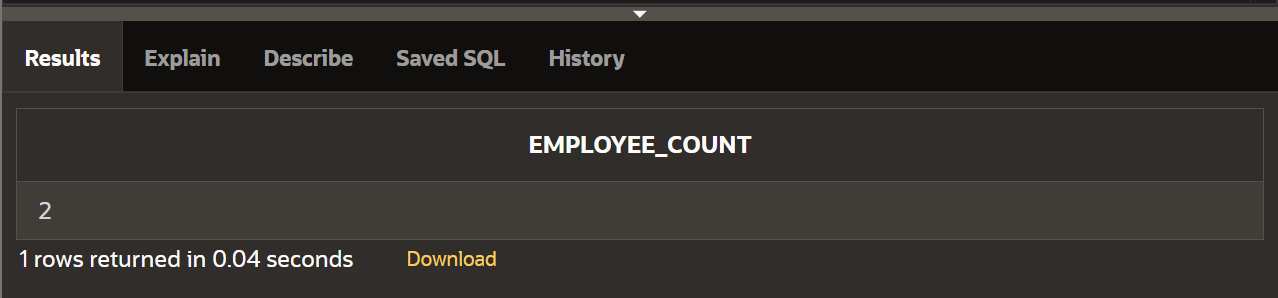
JOIN "OFFICE" o ON sp.of\_id = o.of\_id

WHERE o.office = p\_office;

RETURN v\_e\_count;

END employee\_count;

SELECT employee\_count('Buenos-Aires') AS employee\_count FROM dual;



ms sql

CREATE FUNCTION dbo.employee\_count(

@p\_office NVARCHAR(100))

RETURNS INT

AS

BEGIN

RETURN (

SELECT COUNT(\*)

FROM SPERSON sp

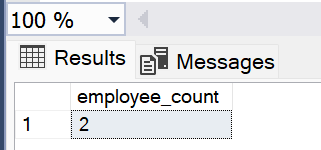
JOIN [OFFICE] o ON sp.of\_id = o.of\_id

WHERE o.office = @p\_office

)

END

SELECT dbo.employee\_count('Chicago') AS employee\_count;



1. Создать подпрограммы, которые будут включать в себя следующие операции:
2. изменение зарплаты указанному сотруднику на заданную величину( 2 параметра: фамилия сотрудника и величина изменения з/пл( если число положительное, то зарплата увеличивается, если отрицательное, то зарплата уменьшается)

исключение – нет сотрудника;

oracle

CREATE OR REPLACE FUNCTION update\_salary (

p\_e\_name IN VARCHAR2,

p\_salary\_change IN NUMBER

) RETURN VARCHAR2

IS

v\_count INTEGER;

v\_salary NUMBER;

e\_employee\_not\_found EXCEPTION;

BEGIN

SELECT COUNT(\*) INTO v\_count FROM EMP WHERE e\_name = p\_e\_name;

IF v\_count = 0 THEN

RAISE e\_employee\_not\_found;

END IF;

UPDATE EMP

SET salary = salary + p\_salary\_change

WHERE e\_name = p\_e\_name

RETURNING salary INTO v\_salary;

RETURN ' Зарплата сотрудника: ' || p\_e\_name || ': ' || v\_salary;

EXCEPTION

WHEN e\_employee\_not\_found THEN

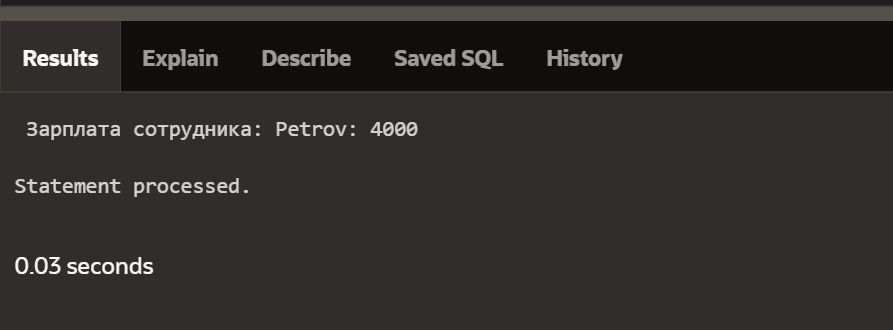
RAISE\_APPLICATION\_ERROR(-20001, 'Нет такого сотрудника: ' || p\_e\_name);

END update\_salary;

BEGIN

DBMS\_OUTPUT.PUT\_LINE(update\_salary('Petrov', 1000));

END;



CREATE OR REPLACE PROCEDURE update\_salary\_proc (

p\_e\_name IN VARCHAR2,

p\_salary\_change IN NUMBER

)

IS

v\_count INTEGER;

v\_new\_salary NUMBER;

e\_employee\_not\_found EXCEPTION;

BEGIN

SELECT COUNT(\*) INTO v\_count FROM EMP WHERE e\_name = p\_e\_name;

IF v\_count = 0 THEN

RAISE e\_employee\_not\_found;

END IF;

UPDATE EMP

SET salary = salary + p\_salary\_change

WHERE e\_name = p\_e\_name

RETURNING salary INTO v\_new\_salary;

DBMS\_OUTPUT.PUT\_LINE('Зарплата сотрудника ' || p\_e\_name ||

' теперь: ' || v\_new\_salary);

EXCEPTION

WHEN e\_employee\_not\_found THEN

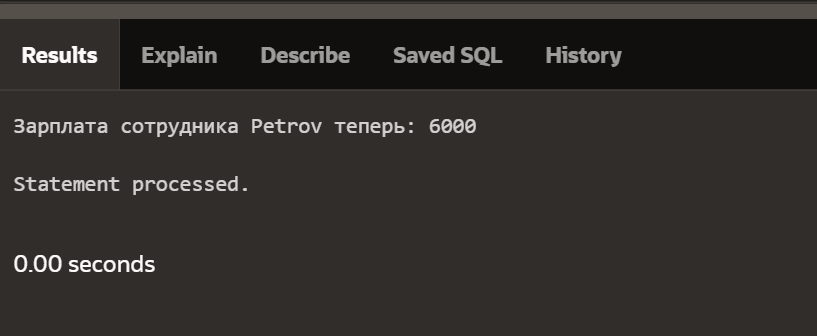
RAISE\_APPLICATION\_ERROR(-20001, 'Нет такого сотрудника: ' || p\_e\_name);

END update\_salary\_proc;

BEGIN

update\_salary\_proc('Petrov', 1000);

END;



ms sql

CREATE PROCEDURE update\_salary (

@p\_e\_name NVARCHAR(255),

@p\_salary\_change DECIMAL(10,2)

)

AS

BEGIN

DECLARE @v\_count INT;

DECLARE @v\_salary DECIMAL(10,2);

SELECT @v\_count = COUNT(\*) FROM EMP WHERE e\_name = @p\_e\_name;

IF @v\_count = 0

BEGIN

RAISERROR ('Нет сотрудника: %s', 16, 1, @p\_e\_name);

RETURN;

END

UPDATE EMP

SET salary = salary + @p\_salary\_change

WHERE e\_name = @p\_e\_name;

SELECT @v\_salary = salary FROM EMP WHERE e\_name = @p\_e\_name;

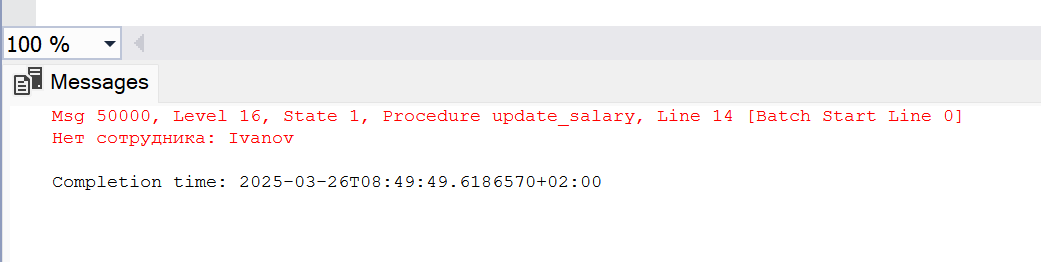
PRINT 'Зарплата сотрудника ' + @p\_e\_name + ': ' + CONVERT(NVARCHAR, @v\_salary);

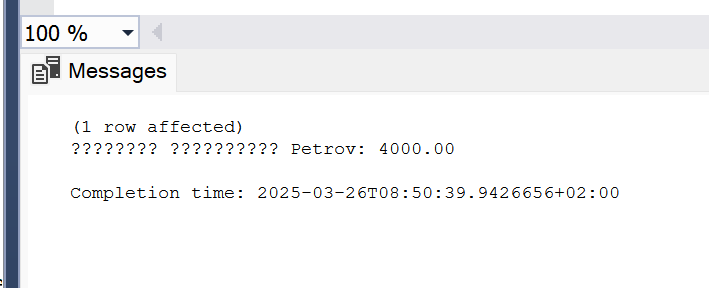
END;

EXEC update\_salary

@p\_e\_name = 'Ivanov',

@p\_salary\_change = 1000.00;





1. Реструктуризация фирмы - отделы с названием Sales перевести Dallas, остальные в New York (процедура без параметров) исключений нет.

oracle

CREATE OR REPLACE PROCEDURE restructure\_company

IS

BEGIN

UPDATE DEPT

SET location = CASE

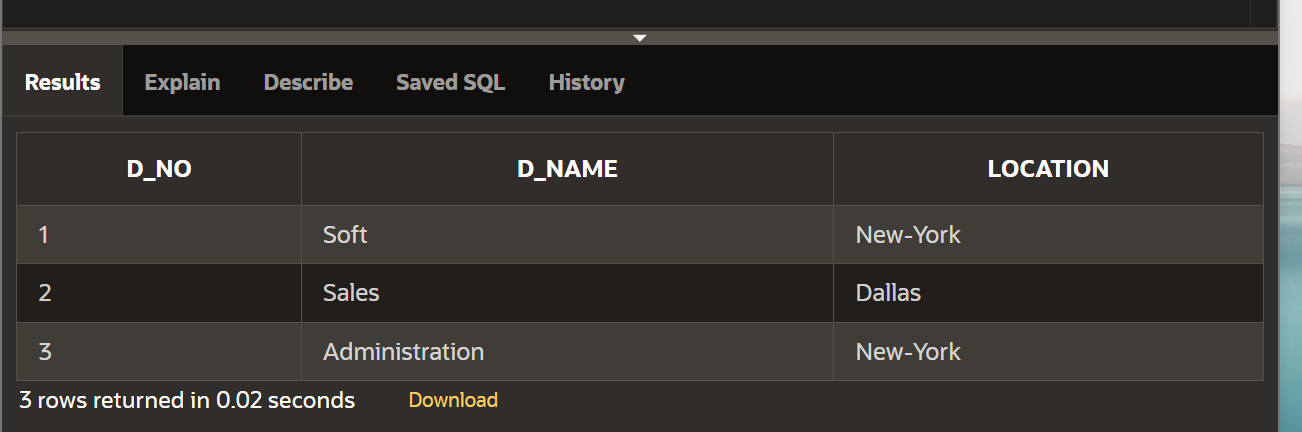
WHEN d\_name = 'Sales' THEN 'Dallas'

ELSE 'New-York'

END;

END restructure\_company;

select \* from dept;



ms sql

CREATE PROCEDURE restructure\_company

AS

BEGIN

UPDATE DEPT

SET location = CASE

WHEN d\_name = 'Sales' THEN 'Dallas'

ELSE 'New-York'

END;

END;

SELECT \* FROM DEPT;

