

```
SELECT * FROM JOBS;
```

```
CREATE OR REPLACE PROCEDURE pobierz_nazwe_pracy (
```

```
    p_job_id jobs.job_id%TYPE,
```

```
    p_job_title OUT jobs.job_title%TYPE
```

```
) AS
```

```
    BEGIN
```

```
        SELECT job_title INTO p_job_title FROM JOBS
```

```
        WHERE job_id = p_job_id;
```

```
        DBMS_OUTPUT.PUT_LINE('Stanowisko: ' || p_job_title);
```

```
    EXCEPTION
```

```
        WHEN NO_DATA_FOUND THEN
```

```
            DBMS_OUTPUT.PUT_LINE('Brak stanowiska o ID: ' || p_job_id);
```

```
        WHEN OTHERS THEN
```

```
            DBMS_OUTPUT.PUT_LINE('Błąd: ' || SQLERRM);
```

```
    END;
```

```
/
```

```
SET SERVEROUTPUT ON;
```

```
DECLARE
```

```
    v_tytul jobs.job_title%TYPE;
```

```
BEGIN
```

```
    pobierz_nazwe_pracy('IT_PROG', v_tytul);
```

```
END;
```

```
/
```

```
SELECT * FROM EMPLOYEES;
```

```
CREATE OR REPLACE PROCEDURE pobierz_roczne_zarobki (
```

```
    p_emp_id employees.employee_id%TYPE,
```

```
    p_roczna_kwota OUT NUMBER
```

```
) AS
```

```
    v_salary employees.salary%TYPE;
```

```
    v_commission_pct employees.commission_pct%TYPE;
```

```
BEGIN
```

```
    SELECT salary, commission_pct INTO v_salary, v_commission_pct FROM EMPLOYEES
```

```
        WHERE employee_id = p_emp_id;
```

```
    IF v_commission_pct IS NULL THEN
```

```
        v_commission_pct := 0;
```

```
    END IF;
```

```
    p_roczna_kwota := v_salary * 12 + (v_salary * v_commission_pct);
```

```
    DBMS_OUTPUT.PUT_LINE('Roczne zarobki: ' || p_roczna_kwota);
```

```
EXCEPTION
```

```
    WHEN NO_DATA_FOUND THEN
```

```
        DBMS_OUTPUT.PUT_LINE('Nie znaleziono pracownika o ID: ' || p_emp_id);
```

```
    WHEN OTHERS THEN
```

```
        DBMS_OUTPUT.PUT_LINE('Błąd: ' || SQLERRM);
```

```
END;
```

```
/
```

```
DECLARE
```

```
v_kwota NUMBER;

BEGIN

    pobierz_roczne_zarobki(149, v_kwota);

END;

/


CREATE OR REPLACE PROCEDURE wycignij_kierunkowy_po_nazwisku (

    p_last_name employees.last_name%TYPE,

    p_kierunkowy OUT VARCHAR2

) AS

    v_telefon employees.phone_number%TYPE;

    v_pozycja_kropki PLS_INTEGER;

BEGIN

    SELECT phone_number INTO v_telefon FROM EMPLOYEES

        WHERE LOWER(last_name) = LOWER(p_last_name) AND ROWNUM = 1;

    v_pozycja_kropki := INSTR(v_telefon, '.');

    IF v_pozycja_kropki > 0 THEN

        p_kierunkowy := SUBSTR(v_telefon, 1, v_pozycja_kropki - 1);

    ELSE

        p_kierunkowy := v_telefon;

    END IF;

    DBMS_OUTPUT.PUT_LINE('Kierunkowy dla ' || p_last_name || ': ' || p_kierunkowy);

EXCEPTION

    WHEN NO_DATA_FOUND THEN

        DBMS_OUTPUT.PUT_LINE('Nie znaleziono pracownika o nazwisku: ' || p_last_name);

    WHEN OTHERS THEN

        DBMS_OUTPUT.PUT_LINE('Błąd: ' || SQLERRM);
```

```
END;
```

```
/
```

```
DECLARE
```

```
    v_kierunkowy VARCHAR2(20);
```

```
BEGIN
```

```
    wyciagnij_kierunkowy_po_nazwisku('King', v_kierunkowy);
```

```
END;
```

```
/
```

```
CREATE OR REPLACE PROCEDURE formatuj_napis (
```

```
    p_wejscie IN  VARCHAR2,
```

```
    p_wyjscie OUT VARCHAR2
```

```
) AS
```

```
    v_dlugosc PLS_INTEGER;
```

```
BEGIN
```

```
    v_dlugosc := LENGTH(p_wejscie);
```

```
    IF v_dlugosc = 0 THEN
```

```
        p_wyjscie := '';
```

```
    ELSIF v_dlugosc = 1 THEN
```

```
        p_wyjscie := UPPER(p_wejscie);
```

```
    ELSE
```

```
        p_wyjscie :=
```

```
            UPPER(SUBSTR(p_wejscie, 1, 1)) ||
```

```
            LOWER(SUBSTR(p_wejscie, 2, v_dlugosc - 2)) ||
```

```
            UPPER(SUBSTR(p_wejscie, -1, 1));
```

```
    END IF;
```

```
        DBMS_OUTPUT.PUT_LINE('Sformatowany ciąg: ' || p_wyjście);

EXCEPTION

    WHEN OTHERS THEN

        DBMS_OUTPUT.PUT_LINE('Błąd: ' || SQLERRM);

END;

/
```

```
DECLARE

    v_wynik VARCHAR2(100);

BEGIN

    formatuj_napis('wHaTsSuP', v_wynik);

END;

/
```

```
CREATE OR REPLACE PROCEDURE pesel_na_date (

    p_pesel IN  VARCHAR2,

    p_data OUT DATE

) AS

    v_rok NUMBER;

    v_mies NUMBER;

    v_dzien NUMBER;

BEGIN

    v_rok := TO_NUMBER(SUBSTR(p_pesel, 1, 2));

    v_mies := TO_NUMBER(SUBSTR(p_pesel, 3, 2));

    v_dzien := TO_NUMBER(SUBSTR(p_pesel, 5, 2));

    IF v_mies > 20 THEN

        v_rok := 2000 + v_rok;
```

```
        v_mies := v_mies - 20;

ELSE

        v_rok := 1900 + v_rok;

END IF;

p_data := TO_DATE(v_rok || '-' || LPAD(v_mies, 2, '0') || '-' || LPAD(v_dzien, 2, '0'), 'YYYY-MM-DD');

DBMS_OUTPUT.PUT_LINE('Data urodzenia: ' || TO_CHAR(p_data, 'YYYY-MM-DD'));

EXCEPTION

        WHEN OTHERS THEN

                DBMS_OUTPUT.PUT_LINE('Błąd: ' || SQLERRM);

END;

/
```

```
DECLARE

        v_data DATE;

BEGIN

        pesel_na_date('02270812345', v_data);

END;

/
```

```
SELECT * FROM COUNTRIES;

SELECT * FROM DEPARTMENTS;
```

```
CREATE OR REPLACE PROCEDURE statystyki_kraju (

        p_country_name countries.country_name%TYPE,

        p_liczba_pracownikow OUT NUMBER,

        p_liczba_departamentow OUT NUMBER

) AS
```

```
v_country_id COUNTRIES.country_id%TYPE;

BEGIN

    SELECT country_id INTO v_country_id FROM COUNTRIES

        WHERE LOWER(country_name) = LOWER(p_country_name);

    SELECT COUNT(*) INTO p_liczba_departamentow FROM DEPARTMENTS d JOIN locations l ON d.location_id = l.location_id

        WHERE l.country_id = v_country_id;

    SELECT COUNT(*) INTO p_liczba_pracownikow FROM EMPLOYEES e JOIN departments d ON e.department_id = d.department_id JOIN locations l ON d.location_id = l.location_id

        WHERE l.country_id = v_country_id;

    DBMS_OUTPUT.PUT_LINE('Liczba departamentów: ' || p_liczba_departamentow);

    DBMS_OUTPUT.PUT_LINE('Liczba pracowników: ' || p_liczba_pracownikow);

EXCEPTION

    WHEN NO_DATA_FOUND THEN

        DBMS_OUTPUT.PUT_LINE('Nie znaleziono kraju o nazwie: ' || p_country_name);

    WHEN OTHERS THEN

        DBMS_OUTPUT.PUT_LINE('Błąd: ' || SQLERRM);

END;
```

/

```
DECLARE

    v_prac NUMBER;

    v_dep NUMBER;

BEGIN

    statystyki_kraju('Egypt', v_prac, v_dep);

END;
```

/

```
CREATE TABLE ARCHIWUM_DEPARTAMENTOW (
```

```
id NUMBER,  
  
nazwa VARCHAR2(100),  
  
data_zamknienia DATE,  
  
ostatni_manager VARCHAR2(100)  
  
);
```

```
SELECT * FROM ARCHIWUM_DEPARTAMENTOW;
```

```
CREATE OR REPLACE TRIGGER trgr_archiwum_departamentow  
  
AFTER DELETE ON departments  
  
FOR EACH ROW DECLARE  
  
    v_manager_name VARCHAR2(100);  
  
BEGIN  
  
    SELECT first_name || ' ' || last_name INTO v_manager_name FROM EMPLOYEES  
  
        WHERE employee_id = :OLD.manager_id;  
  
    INSERT INTO archiwum_departamentow(id, nazwa, data_zamknienia, ostatni_manager) VALUES  
  
        (  
  
            :OLD.department_id,  
  
            :OLD.department_name,  
  
            SYSDATE,  
  
            v_manager_name  
  
        );  
  
EXCEPTION  
  
    WHEN NO_DATA_FOUND THEN  
  
        INSERT INTO ARCHIWUM_DEPARTAMENTOW(id, nazwa, data_zamknienia, ostatni_manager) VALUES  
  
            (  
  
                :OLD.department_id,
```



```
        :OLD.department_name,  
  
        SYSDATE,  
  
        'Nieznany'  
  
    );  
  
END;  
  
/
```

```
ALTER TABLE EMPLOYEES DISABLE CONSTRAINT department_id_in_employees;  
  
ALTER TABLE JOB_HISTORY DISABLE CONSTRAINT department_id_in_job_history;
```

```
DELETE FROM DEPARTMENTS  
  
    WHERE department_id = 50;
```

```
SELECT * FROM ARCHIWUM_DEPARTAMENTOW;  
  
SELECT * FROM DEPARTMENTS;
```

```
CREATE TABLE ZLODZIEJ (  
  
    id NUMBER GENERATED ALWAYS AS IDENTITY,  
  
    "USER" VARCHAR2(30),  
  
    czas_zmiany DATE  
  
);
```

```
CREATE OR REPLACE TRIGGER trgr_sala_range_guard  
  
    BEFORE INSERT OR UPDATE ON EMPLOYEES  
  
    FOR EACH ROW  
  
    BEGIN  
  
        IF :NEW.salary < 2000 OR :NEW.salary > 26000 THEN
```

```
INSERT INTO ZLODZIEJ("USER", czas_zmiany)

VALUES (USER, SYSDATE);

--RAISE_APPLICATION_ERROR(-20001, 'Wynagrodzenie poza dozwolonym zakresem (2000–26000)');

END IF;

END;

/
```

```
INSERT INTO EMPLOYEES (
```

```
    employee_id,
```

```
    first_name,
```

```
    last_name,
```

```
    email,
```

```
    phone_number,
```

```
    hire_date,
```

```
    job_id,
```

```
    salary,
```

```
    manager_id,
```

```
    department_id
```

```
)
```

```
VALUES (
```

```
    666,
```

```
    'Zly',
```

```
    'Czlowiek',
```

```
    'zly@test.com',
```

```
    '233.334.124',
```

```
    SYSDATE,
```

```
    'IT_PROG',
```

```
30000,  
  
100,  
  
60  
);
```

```
SELECT * FROM ZLODZIEJ;  
  
SELECT * FROM EMPLOYEES;
```

```
CREATE SEQUENCE seq_employees_id START WITH 1000 INCREMENT BY 1;
```

```
CREATE OR REPLACE TRIGGER trgr_emp_auto_id  
  
  BEFORE  
  
    INSERT ON EMPLOYEES  
  
      FOR EACH ROW  
  
        BEGIN  
  
          IF :NEW.employee_id IS NULL THEN  
  
            SELECT seq_employees_id.NEXTVAL INTO :NEW.employee_id FROM dual;  
  
          END IF;  
  
        END;  
  
/
```

```
INSERT INTO EMPLOYEES  
  
(  
  
  first_name,  
  
  last_name,  
  
  email,  
  
  job_id,
```

```
hire_date,  
salary,  
department_id
```

```
)
```

```
VALUES
```

```
(
```

```
'Auto1',
```

```
'1',
```

```
'autoid1@test.com',
```

```
'IT_PROG',
```

```
SYSDATE,
```

```
4000,
```

```
60
```

```
);
```

```
SELECT * FROM EMPLOYEES;
```

```
CREATE OR REPLACE TRIGGER trgr_block_job_grades
```

```
BEFORE
```

```
INSERT OR UPDATE OR DELETE ON JOB_GRADES
```

```
BEGIN
```

```
RAISE_APPLICATION_ERROR(-20002, 'Zmiany w tabeli JOB_GRADES są zabronione');
```

```
END;
```

```
/
```

```
DELETE FROM JOB_GRADES WHERE grade = 'A';
```

```
SELECT * FROM JOB_GRADES;
```

```
ALTER TRIGGER trgr_block_job_grades DISABLE;
```

```
DELETE FROM JOB_GRADES WHERE grade_level = 'A';
```

```
ALTER TRIGGER trgr_block_job_grades ENABLE;
```

```
SELECT trigger_name, status FROM user_triggers  
  
WHERE table_name = 'JOB_GRADES';
```

```
CREATE OR REPLACE TRIGGER trg_jobs_block_salary_change  
  
BEFORE UPDATE ON JOBS  
  
FOR EACH ROW  
  
BEGIN  
  
    :NEW.min_salary := :OLD.min_salary;  
  
    :NEW.max_salary := :OLD.max_salary;  
  
END;  
  
/
```

```
UPDATE JOBS SET min_salary = 9999, max_salary = 99999  
  
WHERE job_id = 'IT_PROG';
```

```
ALTER TRIGGER trg_jobs_block_salary_change DISABLE;
```

```
UPDATE JOBS SET min_salary = 9999, max_salary = 99999  
  
WHERE job_id = 'IT_PROG';
```

```
ALTER TRIGGER trg_jobs_block_salary_change ENABLE;
```

```
SELECT trigger_name, status FROM user_triggers

WHERE table_name = 'JOBS';
```

```
SELECT * FROM JOBS;
```

```
CREATE OR REPLACE PACKAGE moja_paczka AS
```

```
    PROCEDURE dodaj_job(p_job_id jobs.job_id%TYPE, p_job_title jobs.job_title%TYPE);
```

```
    PROCEDURE dodaj_pracownika(
```

```
        p_first_name employees.first_name%TYPE,
```

```
        p_last_name employees.last_name%TYPE,
```

```
        p_email employees.email%TYPE,
```

```
        p_salary employees.salary%TYPE,
```

```
        p_job_id employees.job_id%TYPE,
```

```
        p_hire_date DATE DEFAULT SYSDATE,
```

```
        p_department_id employees.department_id%TYPE
```

```
    );
```

```
    PROCEDURE pobierz_nazwe_pracy(p_job_id jobs.job_id%TYPE, p_job_title OUT jobs.job_title%TYPE);
```

```
    PROCEDURE pesel_na_date(p_pesel IN VARCHAR2, p_data OUT DATE);
```

```
END moja_paczka;
```

```
/
```

```
CREATE OR REPLACE PACKAGE regions_pck AS
```

```
    PROCEDURE dodaj_region(p_id NUMBER, p_nazwa VARCHAR2);
```

```
    PROCEDURE usun_region(p_id NUMBER);
```

```
PROCEDURE aktualizuj_region(p_id NUMBER, p_nowa_nazwa VARCHAR2);
```

```
PROCEDURE pokaz_region_po_id(p_id NUMBER);
```

```
PROCEDURE pokaz_region_po_nazwie(p_fragment VARCHAR2);
```

```
PROCEDURE pokaz_wszystkie;
```

```
END regions_pck;
```

```
/
```