

1.1 CREATE DATABASE census;

1.2 CREATE TABLE Ludzie(PESEL char(11) NOT NULL, imie varchar(30) NOT NULL, nazwisko varchar(30) NOT NULL, data_urodzenia date NOT NULL, plec enum('F', 'M') NOT NULL, PRIMARY KEY (PESEL));

1.3 CREATE TABLE Zawody(zawod_id int NOT NULL AUTO_INCREMENT, nazwa varchar(50) NOT NULL, pensja_min float NOT NULL, pensja_max float NOT NULL, PRIMARY KEY(zawod_id), CONSTRAINT minmax CHECK(pensja_min >= 0 and pensja_max >=0 and pensja_min < pensja_max));

1.4 CREATE TABLE Pracownicy (PESEL char(11) NOT NULL, zawod_id int NOT NULL, pensja float NOT NULL);

1.5 INSERT INTO ludzie VALUES ... ze scriptu w pythonie

1.6 INSERT INTO zawody VALUES (1, "polityk", 6000.0, 25000.0), (2, "nauczyciel", 3200.51, 6210.2), (3, "lekarz", 4200.0, 20000.0), (4, "informatyk", 5000.0, 50000.0);

1.7

DELIMITER //

CREATE PROCEDURE people_to_profession()

BEGIN

DECLARE done INT DEFAULT FALSE;

DECLARE psl char(11);

DECLARE birth_date date;

DECLARE gender enum('F', 'M');

DECLARE proff_id int;

DECLARE earn float;

DECLARE min_ern float;

DECLARE max_ern float;

DECLARE cur_ludzie CURSOR FOR SELECT PESEL, data_urodzenia, plec FROM ludzie;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;

OPEN cur_ludzie;

gen_loop: LOOP

FETCH cur_ludzie INTO psl, birth_date, gender;

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IF TIMESTAMPDIFF(YEAR, birth_date, CURDATE()) >= 18 THEN

    IF done THEN

        LEAVE gen_loop;

    END IF;

    fetch_profession: LOOP

        SET proff_id = FLOOR(1 + RAND()*4);

        IF proff_id <> 3 THEN

            LEAVE fetch_profession;

        ELSEIF gender = "M" THEN

            IF TIMESTAMPDIFF(YEAR, birth_date, CURDATE()) <= 65 THEN

                LEAVE fetch_profession;

            END IF;

        ELSE

            IF TIMESTAMPDIFF(YEAR, birth_date, CURDATE()) <= 06 THEN

                LEAVE fetch_profession;

            END IF;

        END IF;

    END LOOP;

    SET min_ern = (SELECT pensja_min FROM zawody WHERE zawod_id = proff_id);

    SET max_ern = (SELECT pensja_max FROM zawody WHERE zawod_id = proff_id);

    SET earn = ROUND((min_ern + (RAND() * (max_ern - min_ern + 1))), 2);

    INSERT INTO pracownicy VALUES (psl, proff_id, earn);

    END IF;

END LOOP;

CLOSE cur_ludzie;

END; //
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DELIMITER ;

2.1 ALTER TABLE ludzie ADD INDEX compound(plec, imie);

2.2 CREATE INDEX indx ON pracownicy (pensja);

2.3 SELECT * FROM ludzie AS l JOIN pracownicy AS p ON l.PESEL = p.PESEL WHERE imie LIKE 'A%' AND plec = 'F';

2.4 SELECT * FROM ludzie AS l JOIN pracownicy AS p ON l.PESEL = p.PESEL WHERE plec = 'F';

2.5 SELECT * FROM ludzie AS l JOIN pracownicy AS p ON l.PESEL = p.PESEL WHERE imie LIKE 'K%';

2.6 SELECT * FROM ludzie AS l JOIN pracownicy AS p ON l.PESEL = p.PESEL WHERE pensja > 10000 AND plec = 'M' AND zawod_id = 4;

3.

DELIMITER //

CREATE PROCEDURE podwyzka(IN praca varchar(50))

BEGIN

DECLARE done INT DEFAULT FALSE;

DECLARE psl char(11);

DECLARE pen float;

DECLARE wanted_id int DEFAULT (SELECT zawod_id FROM zawody WHERE nazwa = praca);

DECLARE id int;

DECLARE cur CURSOR FOR SELECT PESEL, zawod_id, pensja FROM pracownicy;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;

START TRANSACTION;

raise_loop: LOOP

FETCH cur INTO psl, id, pen;

IF id = wanted_id THEN

IF done THEN

LEAVE raise_loop;

END IF;

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IF (pen * 1.05) > (SELECT pensja_max FROM zawody WHERE zawod_id = id) THEN
    ROLLBACK;
    LEAVE raise_loop;
ELSE
    UPDATE pracownicy SET pensja = (pen * 1.05) WHERE PESEL = psl;
END IF;
END IF;
END LOOP;
COMMIT;
END; //

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DELIMITER ;

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4.1 PREPARE num_of_F_in_proff FROM 'SELECT COUNT(*) FROM pracownicy AS p JOIN ludzie AS l
ON p.PESEL = l.PESEL JOIN zawody AS z ON z.zawod_id = p.zawod_id WHERE plec = "F" AND nazwa =
?';

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4.2 EXECUTE num_of_F_in_proff USING 'informatyk';

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5.1 mysqldump -u root -p -x -A census > census.sql

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5.2 DROP DATABASE census;

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5.3 CREATE DATABASE census;

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5.4 mysql -u root -p census < data-dump.sql

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6.1.2 SELECT department FROM Employees WHERE first_name = 'Bob' AND last_name = 'Franco' ;

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6.1.3 UPDATE employees SET department = 'Sales' WHERE first_name = 'Tobi' AND last_name =
'Barnett' ;

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6.1.4 ALTER TABLE employees ADD phone varchar(20) ;

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6.1.5 GRANT ALL PRIVILEGES ON grant_rights TO unauthorized_user;

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6.1.9 Smith' OR '1' = '1

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6.1.10 1 , '2137' OR 1 = 1

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6.1.11 Smith' OR '1' = '1, 3SL99A' OR '1' = '1

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6.1.12 Smith' OR '1' = '1, 3SL99A' OR '1' = '1' ; UPDATE employees SET SALARY = 99999 WHERE USERID = 37648; --

6.1.13 %' ;DROP TABLE access_log ; --

6.2.3 SELECT * FROM user_data WHERE last_name = 'Dave' OR '1' = '1' ; SELECT * FROM user_data JOIN user_system_data ON user_data.cookie = user_system_data.cookie; --'

6.2.5

6.2.6 4, 3, 2, 3, 4

6.3.5

6.3.6

6.3.9

6.3.10

6.3.12