**Programovanie projetu**

1. **Infromácie o tabuľkách v databáze**

CREATE **SEQUENCE** public.s\_user\_id\_seq

INCREMENT 1 MINVALUE 1

MAXVALUE 999999999999999999 START 1

CACHE 1;

CREATE **TABLE** public.t\_user (

user\_id BIGINT DEFAULT nextval('s\_user\_id\_seq'::regclass) NOT NULL,

username VARCHAR(50) NOT NULL,

password VARCHAR(255) NOT NULL,

enabled BOOLEAN DEFAULT false NOT NULL,

first\_name VARCHAR(50),

surname VARCHAR(50) NOT NULL,

email VARCHAR(255),

first\_login TIMESTAMP(0) WITH TIME ZONE,

last\_login TIMESTAMP(0) WITH TIME ZONE,

status INTEGER NOT NULL,

CONSTRAINT t\_user\_pkey PRIMARY KEY(user\_id)

);

CREATE **SEQUENCE** public.s\_article\_id\_seq

INCREMENT 1 MINVALUE 1

MAXVALUE 999999999999999999 START 1

CACHE 1;

CREATE **TABLE** public.t\_article (

article\_id BIGINT DEFAULT nextval('s\_article\_id\_seq'::regclass) NOT NULL,

name VARCHAR(200) NOT NULL,

plu VARCHAR(6) NOT NULL,

description VARCHAR(1024),

createddate TIMESTAMP WITHOUT TIME ZONE,

createdby VARCHAR(50),

lastupdated TIMESTAMP WITHOUT TIME ZONE,

lastupdatedby VARCHAR(50),

CONSTRAINT t\_article\_pkey PRIMARY KEY(article\_id)

);

1. **Infromácie o údajoch v databáze**

**insert** into t\_user (user\_id,username,password,enabled,first\_name,surname,email,first\_login,last\_login,status)

values(NEXTVAL('s\_user\_id\_seq'),'jozko','123',true,'Jozko','Novak','jozko@novak.sk',now(),now(),0);

**insert** into t\_user (user\_id,username,password,enabled,first\_name,surname,email,first\_login,last\_login,status)

values(NEXTVAL('s\_user\_id\_seq'),'anicka','000',true,'Anicka','Modra','am@centrum.sk',now(),now(),0);

**insert** into t\_article (article\_id,name,plu,description) values(NEXTVAL('s\_article\_id\_seq'),'Jogurt','9875','Jogurt s kuskami ovocia');

**insert** into t\_article (article\_id,name,plu,description) values(NEXTVAL('s\_article\_id\_seq'),'Mlieko','9876','Mlieko plnotucne');

**insert** into t\_article (article\_id,name,plu,description) values(NEXTVAL('s\_article\_id\_seq'),'Chlieb','9877','Chlieb cierny');

1. **Pripojenie do databázy**

try {

Connection conn = null;

String dbURL = "jdbc:postgresql://192.168.21.10:5432/projectPRO";

//String dbURL = "jdbc:postgresql://localhost/projectPRO";

String user = "ziak2";

String pass = "ziak2";

conn **= DriverManager.getConnection**(dbURL, user, pass);

if (conn != null) {

System.out.println("Connected to database");

……

}

} catch(SQLException ex) {

System.out.println("Unnable connect to database");

System.out.println("ERROR: "+ex .getMessage());

}

1. **Načítanie údajov y databázy**

//vyskladanie query pomocou +, pozor na ‘ ’

String query = "SELECT password FROM t\_user WHERE username = **'**"+username+"**'**;";

Statement st = conn.createStatement();

ResultSet rs = st.**executeQuery**(query);

if (rs.next()) {

passwordDB = rs.getString("password");

System.out.println(passwordDB+" "+password);

} else {

System.out.println("User doesn’t exists");

}

1. **Vloženie údajov do databázy**

// údaje doplnené do query pomocou ? a set

String query2 = " insert into t\_user " +

"(user\_id,username,password,enabled,first\_name,surname,email,first\_login,last\_login,status) " + " VALUES (NEXTVAL('s\_user\_id\_seq'),?, ?, true, ?, ?, ?,now(),now(),0);";

PreparedStatement preparedStatement = conn.prepareStatement(query2);

preparedStatement.setString(1, username);

preparedStatement.setString(2, password);

preparedStatement.setString(3, firstname);

preparedStatement.setString(4, surname);

preparedStatement.setString(5, email);

System.out.println(preparedStatement);

preparedStatement.**executeUpdate**();

1. **Zmena údajov v databáze**

String SQL = "UPDATE t\_article "

+ "SET name = ? "

+ "WHERE article\_id = ?";

int affectedrows = 0;

try (Connection conn = connect();

PreparedStatement pstmt = conn.prepareStatement(SQL)) {

pstmt.setString(1, articlename);

pstmt.setInt(2, id);

affectedrows = pstmt.executeUpdate();

} catch (SQLException ex) {

System.out.println(ex.getMessage());

}

return affectedrows;

1. **Vymazanie údajov z databázy**

String query4 = "DELETE FROM t\_user WHERE user\_id = ?";

int affectedrows = 0;

PreparedStatement preparedStatement = conn.prepareStatement(query4);

preparedStatement.setInt(1, id);

affectedrows = preparedStatement.executeUpdate();

1. **Zobrazenie údajov z databázy do TableView**

String query = "SELECT user\_id, username, password FROM t\_user;";

Statement st = conn.createStatement();

ResultSet rs = st.executeQuery(query);

while (rs.next()) {

String id = String.valueOf(rs.getInt("userId"));

String username = rs.getString("username");

String password = rs.getString("password");

String dbData[] = {id, username, password};

DefaultTableModel tblModel = (DefaultTableModel) jTable1.getModel();

tblModel.addaRow(dbData);

}