|  |
| --- |
| 1. <?xml version="1.0" encoding="UTF-8"?> |
|  | <projectDescription> |
|  | <name>Administrative-Portal</name> |
|  | <comment></comment> |
|  | <projects> |
|  | </projects> |
|  | <buildSpec> |
|  | <buildCommand> |
|  | <name>org.eclipse.jdt.core.javabuilder</name> |
|  | <arguments> |
|  | </arguments> |
|  | </buildCommand> |
|  | <buildCommand> |
|  | <name>org.eclipse.wst.common.project.facet.core.builder</name> |
|  | <arguments> |
|  | </arguments> |
|  | </buildCommand> |
|  | <buildCommand> |
|  | <name>org.eclipse.wst.validation.validationbuilder</name> |
|  | <arguments> |
|  | </arguments> |
|  | </buildCommand> |
|  | </buildSpec> |
|  | <natures> |
|  | <nature>org.eclipse.jem.workbench.JavaEMFNature</nature> |
|  | <nature>org.eclipse.wst.common.modulecore.ModuleCoreNature</nature> |
|  | <nature>org.eclipse.wst.common.project.facet.core.nature</nature> |
|  | <nature>org.eclipse.jdt.core.javanature</nature> |
|  | <nature>org.eclipse.wst.jsdt.core.jsNature</nature> |
|  | </natures> |
|  | </projectDescription> |



|  |
| --- |
| package com.simplilearn.admin; |
|  |  |
|  | import java.sql.Connection; |
|  | import java.sql.ResultSet; |
|  | import java.sql.Statement; |
|  | import java.util.ArrayList; |
|  | import java.util.List; |
|  |  |
|  | import javax.sql.DataSource; |
|  |  |
|  | import com.simplilearn.models.Student; |
|  | import com.simplilearn.models.Subject; |
|  | import com.simplilearn.models.Teacher; |
|  | import com.simplilearn.models.Class; |
|  |  |
|  | public class DbRetrieve { |
|  |  |
|  | private DataSource dataSource; |
|  |  |
|  | public DbRetrieve(DataSource dataSource) { |
|  | this.dataSource = dataSource; |
|  | } |
|  |  |
|  | public List<Student> getStudents() { |
|  |  |
|  | List<Student> students = new ArrayList<>(); |
|  |  |
|  | Connection myConn = null; |
|  | Statement myStmt = null; |
|  | ResultSet myRs = null; |
|  |  |
|  | try { |
|  |  |
|  | // get a connection |
|  | myConn = dataSource.getConnection(); |
|  |  |
|  | // create sql stmt |
|  | String sql = "SELECT \* FROM students"; |
|  | myStmt = myConn.createStatement(); |
|  |  |
|  | // execute query |
|  | myRs = myStmt.executeQuery(sql); |
|  |  |
|  | // process result |
|  | while (myRs.next()) { |
|  |  |
|  | // retrieve data from result set row |
|  | int id = myRs.getInt("id"); |
|  | String firstName = myRs.getString("fname"); |
|  | String lastName = myRs.getString("lname"); |
|  | int age = myRs.getInt("age"); |
|  | int aclass = myRs.getInt("class"); |
|  |  |
|  | // create new student object |
|  | Student tempStudent = new Student(id, firstName, lastName, age, aclass); |
|  |  |
|  | // add it to the list of students |
|  | students.add(tempStudent); |
|  |  |
|  | } |
|  |  |
|  | } catch (Exception e) { |
|  | // TODO: handle exception |
|  | } finally { |
|  | // close JDBC objects |
|  | close(myConn, myStmt, myRs); |
|  | } |
|  | return students; |
|  |  |
|  | } |
|  |  |
|  | public List<Teacher> getTeachers() { |
|  |  |
|  | List<Teacher> teachers = new ArrayList<>(); |
|  |  |
|  | Connection myConn = null; |
|  | Statement myStmt = null; |
|  | ResultSet myRs = null; |
|  |  |
|  | try { |
|  |  |
|  | // get a connection |
|  | myConn = dataSource.getConnection(); |
|  |  |
|  | // create sql stmt |
|  | String sql = "SELECT \* FROM teachers"; |
|  | myStmt = myConn.createStatement(); |
|  |  |
|  | // execute query |
|  | myRs = myStmt.executeQuery(sql); |
|  |  |
|  | // process result |
|  | while (myRs.next()) { |
|  |  |
|  | // retrieve data from result set row |
|  | int id = myRs.getInt("id"); |
|  | String firstName = myRs.getString("fname"); |
|  | String lastName = myRs.getString("lname"); |
|  | int age = myRs.getInt("age"); |
|  |  |
|  | // create new student object |
|  | Teacher temp = new Teacher(id, firstName, lastName, age); |
|  |  |
|  | // add it to the list of students |
|  | teachers.add(temp); |
|  |  |
|  | } |
|  |  |
|  | } catch (Exception e) { |
|  | // TODO: handle exception |
|  | } finally { |
|  | // close JDBC objects |
|  | close(myConn, myStmt, myRs); |
|  | } |
|  | return teachers; |
|  |  |
|  | } |
|  |  |
|  | public List<Subject> getSubjects() { |
|  |  |
|  | List<Subject> subjects = new ArrayList<>(); |
|  |  |
|  | Connection myConn = null; |
|  | Statement myStmt = null; |
|  | ResultSet myRs = null; |
|  |  |
|  | try { |
|  |  |
|  | // get a connection |
|  | myConn = dataSource.getConnection(); |
|  |  |
|  | // create sql stmt |
|  | String sql = "SELECT \* FROM subjects"; |
|  | myStmt = myConn.createStatement(); |
|  |  |
|  | // execute query |
|  | myRs = myStmt.executeQuery(sql); |
|  |  |
|  | // process result |
|  | while (myRs.next()) { |
|  |  |
|  | // retrieve data from result set row |
|  | int id = myRs.getInt("id"); |
|  | String name = myRs.getString("name"); |
|  | String shortcut = myRs.getString("shortcut"); |
|  |  |
|  | // create new student object |
|  | Subject temp = new Subject(id, name,shortcut); |
|  |  |
|  | // add it to the list of students |
|  | subjects.add(temp); |
|  |  |
|  | } |
|  |  |
|  | } catch (Exception e) { |
|  | // TODO: handle exception |
|  | } finally { |
|  | // close JDBC objects |
|  | close(myConn, myStmt, myRs); |
|  | } |
|  | return subjects; |
|  |  |
|  | } |
|  |  |
|  | public List<Class> getClasses() { |
|  |  |
|  | List<Class> classes = new ArrayList<>(); |
|  |  |
|  | Connection myConn = null; |
|  | Statement myStmt = null; |
|  | ResultSet myRs = null; |
|  |  |
|  | try { |
|  |  |
|  | // get a connection |
|  | myConn = dataSource.getConnection(); |
|  |  |
|  | // create sql stmt |
|  | String sql = "SELECT \* FROM classes"; |
|  | myStmt = myConn.createStatement(); |
|  |  |
|  | // execute query |
|  | myRs = myStmt.executeQuery(sql); |
|  |  |
|  | // process result |
|  | while (myRs.next()) { |
|  |  |
|  | // retrieve data from result set row |
|  | int id = myRs.getInt("id"); |
|  | int section = myRs.getInt("section"); |
|  | int subject = myRs.getInt("subject"); |
|  | int teacher = myRs.getInt("teacher"); |
|  | String time = myRs.getString("time"); |
|  |  |
|  | Teacher tempTeacher = loadTeacher(teacher); |
|  | Subject tempSubject = loadSubject(subject); |
|  |  |
|  | String teacher\_name = tempTeacher.getFname() + " " + tempTeacher.getLname(); |
|  |  |
|  | // create new student object |
|  | Class temp = new Class(id, section, teacher\_name, tempSubject.getName(), time); |
|  |  |
|  | // add it to the list of students |
|  | classes.add(temp); |
|  |  |
|  | } |
|  |  |
|  | } catch (Exception e) { |
|  | // TODO: handle exception |
|  | } finally { |
|  | // close JDBC objects |
|  | close(myConn, myStmt, myRs); |
|  | } |
|  | return classes; |
|  |  |
|  | } |
|  |  |
|  | public Teacher loadTeacher(int teacherId) { |
|  |  |
|  | Teacher theTeacher = null; |
|  |  |
|  | Connection myConn = null; |
|  | Statement myStmt = null; |
|  | ResultSet myRs = null; |
|  |  |
|  | try { |
|  |  |
|  | // get a connection |
|  | myConn = dataSource.getConnection(); |
|  |  |
|  | // create sql stmt |
|  | String sql = "SELECT \* FROM teachers WHERE id = " + teacherId; |
|  | myStmt = myConn.createStatement(); |
|  |  |
|  | // execute query |
|  | myRs = myStmt.executeQuery(sql); |
|  |  |
|  | // process result |
|  | while (myRs.next()) { |
|  |  |
|  | // retrieve data from result set row |
|  | int id = myRs.getInt("id"); |
|  | String fname = myRs.getString("fname"); |
|  | String lname = myRs.getString("lname"); |
|  | int age = myRs.getInt("age"); |
|  | theTeacher = new Teacher(id, fname, lname, age); |
|  |  |
|  | } |
|  |  |
|  | } catch (Exception e) { |
|  | // TODO: handle exception |
|  | } finally { |
|  | // close JDBC objects |
|  | close(myConn, myStmt, myRs); |
|  | } |
|  | return theTeacher; |
|  |  |
|  | } |
|  |  |
|  | public Subject loadSubject(int subjectId) { |
|  |  |
|  | Subject theSubject = null; |
|  |  |
|  | Connection myConn = null; |
|  | Statement myStmt = null; |
|  | ResultSet myRs = null; |
|  |  |
|  | try { |
|  |  |
|  | // get a connection |
|  | myConn = dataSource.getConnection(); |
|  |  |
|  | // create sql stmt |
|  | String sql = "SELECT \* FROM subjects WHERE id = " + subjectId; |
|  | myStmt = myConn.createStatement(); |
|  |  |
|  | // execute query |
|  | myRs = myStmt.executeQuery(sql); |
|  |  |
|  | // process result |
|  | while (myRs.next()) { |
|  |  |
|  | // retrieve data from result set row |
|  | int id = myRs.getInt("id"); |
|  | String name = myRs.getString("name"); |
|  | String shortcut = myRs.getString("shortcut"); |
|  |  |
|  | theSubject = new Subject(id, name,shortcut); |
|  |  |
|  | } |
|  |  |
|  | } catch (Exception e) { |
|  | // TODO: handle exception |
|  | } finally { |
|  | // close JDBC objects |
|  | close(myConn, myStmt, myRs); |
|  | } |
|  | return theSubject; |
|  |  |
|  | } |
|  |  |
|  | public Class loadClass(int classId) { |
|  |  |
|  | Class theClass = null; |
|  |  |
|  | Connection myConn = null; |
|  | Statement myStmt = null; |
|  | ResultSet myRs = null; |
|  |  |
|  | try { |
|  |  |
|  | // get a connection |
|  | myConn = dataSource.getConnection(); |
|  |  |
|  | // create sql stmt |
|  | String sql = "SELECT \* FROM clasess WHERE id = " + classId; |
|  | myStmt = myConn.createStatement(); |
|  |  |
|  | // execute query |
|  | myRs = myStmt.executeQuery(sql); |
|  |  |
|  | // process result |
|  | while (myRs.next()) { |
|  |  |
|  | // retrieve data from result set row |
|  | int id = myRs.getInt("id"); |
|  | int section = myRs.getInt("section"); |
|  | int subject = myRs.getInt("subject"); |
|  | int teacher = myRs.getInt("teacher"); |
|  | String time = myRs.getString("time"); |
|  |  |
|  | Teacher tempTeacher = loadTeacher(teacher); |
|  | Subject tempSubject = loadSubject(subject); |
|  |  |
|  | String teacher\_name = tempTeacher.getFname() + " " + tempTeacher.getLname(); |
|  |  |
|  | } |
|  |  |
|  | } catch (Exception e) { |
|  | // TODO: handle exception |
|  | } finally { |
|  | // close JDBC objects |
|  | close(myConn, myStmt, myRs); |
|  | } |
|  | return theClass; |
|  |  |
|  | } |
|  |  |
|  | public List<Student> loadClassStudents(int classId) { |
|  |  |
|  | List<Student> students = new ArrayList<>(); |
|  |  |
|  | Connection myConn = null; |
|  | Statement myStmt = null; |
|  | ResultSet myRs = null; |
|  |  |
|  | try { |
|  |  |
|  | // get a connection |
|  | myConn = dataSource.getConnection(); |
|  |  |
|  | // create sql stmt |
|  | String sql = "SELECT \* FROM students WHERE class = " + classId; |
|  | myStmt = myConn.createStatement(); |
|  |  |
|  | // execute query |
|  | myRs = myStmt.executeQuery(sql); |
|  |  |
|  | // process result |
|  | while (myRs.next()) { |
|  |  |
|  | // retrieve data from result set row |
|  | int id = myRs.getInt("id"); |
|  | String firstName = myRs.getString("fname"); |
|  | String lastName = myRs.getString("lname"); |
|  | int age = myRs.getInt("age"); |
|  | int aclass = myRs.getInt("class"); |
|  |  |
|  | // create new student object |
|  | Student tempStudent = new Student(id, firstName, lastName, age, aclass); |
|  | students.add(tempStudent); |
|  |  |
|  | } |
|  |  |
|  | } catch (Exception e) { |
|  | // TODO: handle exception |
|  | } finally { |
|  | // close JDBC objects |
|  | close(myConn, myStmt, myRs); |
|  | } |
|  | return students; |
|  |  |
|  | } |
|  |  |
|  | private void close(Connection myConn, Statement myStmt, ResultSet myRs) { |
|  |  |
|  | try { |
|  | if (myRs != null) { |
|  | myRs.close(); |
|  | } |
|  | if (myStmt != null) { |
|  | myStmt.close(); |
|  | } |
|  | if (myConn != null) { |
|  | myConn.close(); |
|  | } |
|  |  |
|  | } catch (Exception e) { |
|  | e.printStackTrace(); |
|  | } |
|  |  |
|  | } |
|  |  |
|  | } |