**Repositori Week5 MySQL**

**package** Week5;

**public** **class** Application {

**public** **static** **void** main(String[] args) {

Menu menu = **new** Menu();

menu.start();

}

}

**package** Week5;

**import** java.io.IOException;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** java.util.Arrays;

**import** java.util.List;

**import** java.util.Scanner;

//import entity.Team;

**public** **class** Menu {

**private** TeamDao teamDao = **new** TeamDao();

**private** Scanner scanner = **new** Scanner(System.***in***);

**private** List<String> options = Arrays.*asList*(

"Create Team",

"Read Team",

"Update Team",

"Delete Team");

**public** **void** start() {

String selection = " ";

**do** {

printMenu();

selection = scanner.nextLine();

**try** {

**if** (selection.equals("1")) {

createTeam();

}**else** **if** (selection.equals("2")) {

readTeams();

}**else** **if** (selection.equals("3")) {

updateTeam();

}**else** **if** (selection.equals("4")) {

deleteTeam();

}

} **catch** (SQLException e) {

e.printStackTrace();

}

System.***out***.println("Press enter to continue....");

scanner.nextLine();

}**while** (!selection.equals("-1"));

}

**private** **void** printMenu() {

System.***out***.println("Select an Option :\n...................");

**for** ( **int** i=0; i < options.size(); i++){

System.***out***.println(i + 1 + ")" + options.get(i));

}

}

**private** **void** createTeam() **throws** SQLException {

System.***out***.print("Enter new team name: ");

String teamName = scanner.nextLine();

teamDao.createNewTeam(teamName);

}

**private** **void** readTeams() **throws** SQLException {

System.***out***.println("Teams list: ");

teamDao.getTeams();

}

**private** **void** updateTeam() {

System.***out***.println("Enter Name to update");

**int** id = Integer.*parseInt*(scanner.nextLine());

}

**package** Week5;

**import** java.util.List;

**public** **class** Team {

**private** **int** teamId;

**private** String name;

**private** List<Member> members;

**public** Team(**int** teamId, String name, List<Member> members) {

**this**.setTeamId(teamId);

**this**.setName(name);

**this**.setMembers(members);

}

**public** **int** getTeamId() {

**return** teamId;

}

**public** **void** setTeamId(**int** teamId) {

**this**.teamId = teamId;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** List<Member> getMembers() {

**return** members;

}

**public** **void** setMembers(List<Member> members) {

**this**.members = members;

}

}

**package** Week5;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** java.util.ArrayList;

**import** java.util.List;

//import entity.Team;

**public** **class** TeamDao {

**private** Connection connection;

**private** **final** String CREATE\_NEW\_TEAM\_QUERY= "INSERT INTO teams(name) VALUES (?)";

**private** **final** String READ\_TEAMS\_QUERY = "SELECT \* FROM teams";

**private** **final** String DELETE\_TEAM\_BY\_ID\_QUERY = "DELETE FROM teams WHERE id = ?";

**private** **final** String UPDATE\_TEAM\_QUERRY = "UPDATE teams SET name = ? WHERE id = ? ";

**public** TeamDao() {

connection = DBConnection.*getConnection*();

//memberDao = new MemberDao();

}

**public** **void** createNewTeam(String teamName) **throws** SQLException {

PreparedStatement ps = connection.prepareStatement(CREATE\_NEW\_TEAM\_QUERY);

ps.setString(1, teamName);

ps.executeUpdate();

}

**public** **void** getTeams() **throws** SQLException{

ResultSet rs = connection.prepareStatement(READ\_TEAMS\_QUERY).executeQuery();

**while** (rs.next()) {

System.***out***.println("Team Name: " + rs.getString(2) + " Team ID : " + rs.getString(1));

}

}

**public** **void** deleteTeamById(**int** id) **throws** SQLException {

PreparedStatement ps = connection.prepareStatement(DELETE\_TEAM\_BY\_ID\_QUERY);

ps.setInt(1, id);

ps.executeUpdate();

}

**public** **void** updateTeam(String name, **int** id) **throws** SQLException {

PreparedStatement ps = connection.prepareStatement(UPDATE\_TEAM\_QUERRY);

ps.setString(1, name);

ps.setInt(2, id);

ps.executeUpdate();

}

}

package Week5;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnection {

private final static String URL = "jdbc:mysql://localhost:3306/soccerDB";

private final static String USERNAME = "root";

private final static String PASSWORD = "Adrian1964";

private static Connection connection;

private static DBConnection instance;

private DBConnection(Connection connection) {

this.connection = connection;

}

public static Connection getConnection() {

if (instance == null) {

try {

connection = DriverManager.getConnection(URL, USERNAME, PASSWORD);

instance = new DBConnection(connection);

//System.out.println(" Connection successful.");

} catch (SQLException e){

e.printStackTrace();

}

}

return DBConnection.connection;

}

}