**[9번째 실습 과제]**

<데이터베이스개론(01)>

20201012 컴퓨터학과 임소정

**[제출]**

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

public class DepartmentSearch {

public static void main(String[] args) {

String jdbcUrl = "jdbc:oracle:thin:@localhost:1521:xe";

String username = "your\_username";

String password = "your\_password";

try {

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection connection = DriverManager.getConnection(jdbcUrl, username, password);

String sql = "SELECT professor\_name, course\_name FROM professor p " +

"JOIN course c ON p.professor\_id = c.professor\_id " +

"JOIN department d ON p.dept\_id = d.dept\_id " +

"WHERE d.dept\_name = ?";

try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) {

preparedStatement.setString(1, args[0]);

ResultSet resultSet = preparedStatement.executeQuery();

while (resultSet.next()) {

String professorName = resultSet.getString("professor\_name");

String courseName = resultSet.getString("course\_name");

System.out.println(professorName + ": " + courseName);

}

}

connection.close();

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

}

}

}

**[주석]**

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

public class DepartmentSearch {

public static void main(String[] args) {

// args[0]에 학과명이 전달되어야 함

// JDBC 연결 정보

String jdbcUrl = "jdbc:oracle:thin:@localhost:1521:xe";

String username = "your\_username";

String password = "your\_password";

try {

// JDBC 드라이버 로드

Class.forName("oracle.jdbc.driver.OracleDriver");

// 데이터베이스 연결

Connection connection = DriverManager.getConnection(jdbcUrl, username, password);

// 입력된 학과에 소속된 교수 및 강의 정보 조회

String sql = "SELECT professor\_name, course\_name FROM professor p " +

"JOIN course c ON p.professor\_id = c.professor\_id " +

"JOIN department d ON p.dept\_id = d.dept\_id " +

"WHERE d.dept\_name = ?";

try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) {

preparedStatement.setString(1, args[0]);

// 쿼리 실행 및 결과 처리

ResultSet resultSet = preparedStatement.executeQuery();

while (resultSet.next()) {

String professorName = resultSet.getString("professor\_name");

String courseName = resultSet.getString("course\_name");

System.out.println(professorName + ": " + courseName);

}

}

// 연결 종료

connection.close();

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

}

}

}