Eclipse - JDBC 연동

2015. 10. 26

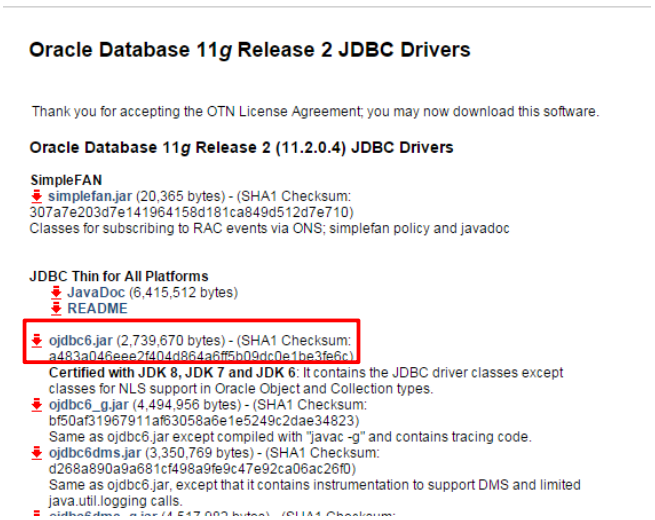
데이터베이스 및 정보보안 연구실
연세대학교 원주캠퍼스

Step 1

- http://www.oracle.com/technetwork/java/javase/downloads/index.html?ssSourceSiteId=ocomen 에서 자신의 컴퓨터에 맞는 JDK 설치
- JDK 환경변수 설정은 인터넷을 참고
- https://eclipse.org/downloads/ 에서 Java EE 버전을 자신의 컴퓨터에 맞는 사양으로 다운

Step 2

- Oracle Database 11*g* Release 2 JDBC Drivers 다운
  - http://www.oracle.com/technetwork/database/enterprise-edition/jdbc-112010-090769.html



Oracle Database 11*g* Release 2 JDBC Drivers

Thank you for accepting the OTN License Agreement; you may now download this software.

Oracle Database 11*g* Release 2 (11.2.0.4) JDBC Drivers

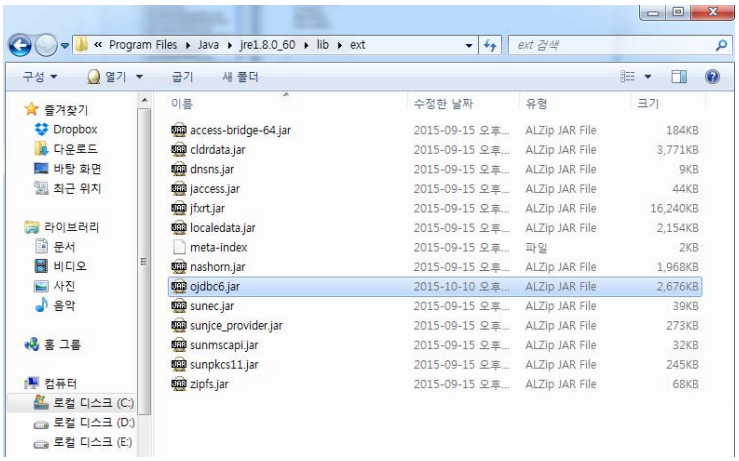
SimpleFAN
simplefan.jar (20,365 bytes) - (SHA1 Checksum: 307a7e203d7e141964158d181ca849d512d7e710)
Classes for subscribing to RAC events via ONS; simplefan policy and javadoc

JDBC Thin for All Platforms
JavaDoc (6,415,512 bytes)
README

ojdbc6.jar (2,739,670 bytes) - (SHA1 Checksum: a483a046eee2f404d864a6ff5b09dc0e1be3fe6c)
Certified with JDK 8, JDK 7 and JDK 6: It contains the JDBC driver classes except classes for NLS support in Oracle Object and Collection types.
ojdbc6_g.jar (4,494,956 bytes) - (SHA1 Checksum: bf50af31967911af63058a6e1e5249c2dae34823)
Same as ojdbc6.jar except compiled with "javac -g" and contains tracing code.
ojdbc6dms.jar (3,350,769 bytes) - (SHA1 Checksum: d268a890a9a681cf498a9fe9c47e92ca06ac26f0)
Same as ojdbc6.jar, except that it contains instrumentation to support DMS and limited java.util.logging calls.

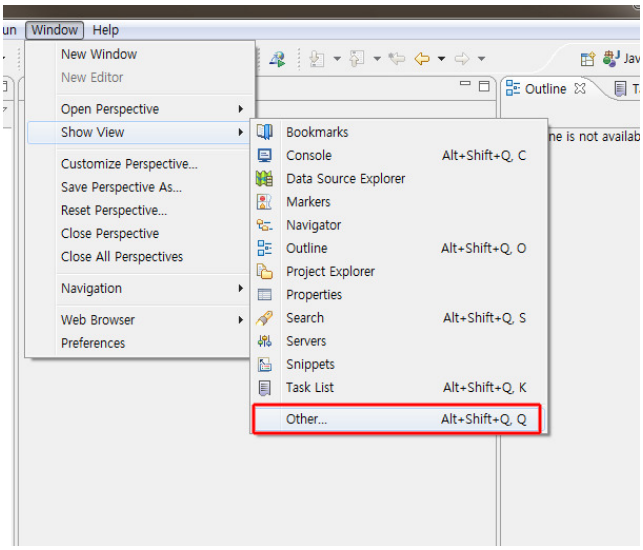
Step 3

- C:₩Program Files₩Java₩jre1.8.0_60₩lib₩ext 위치에 다운받은 ojdbc6.jar 파일을 이동시킴



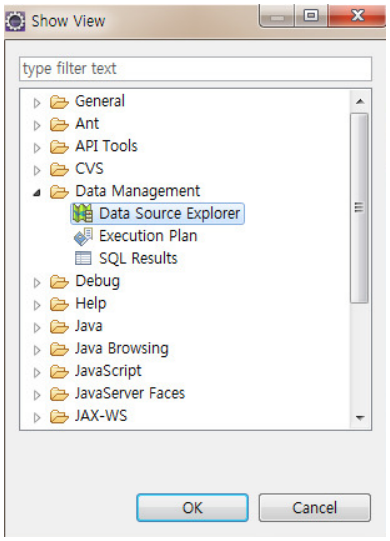
Step 4

- Eclipse를 실행한 뒤 Window -> Show View -> Other를 클릭



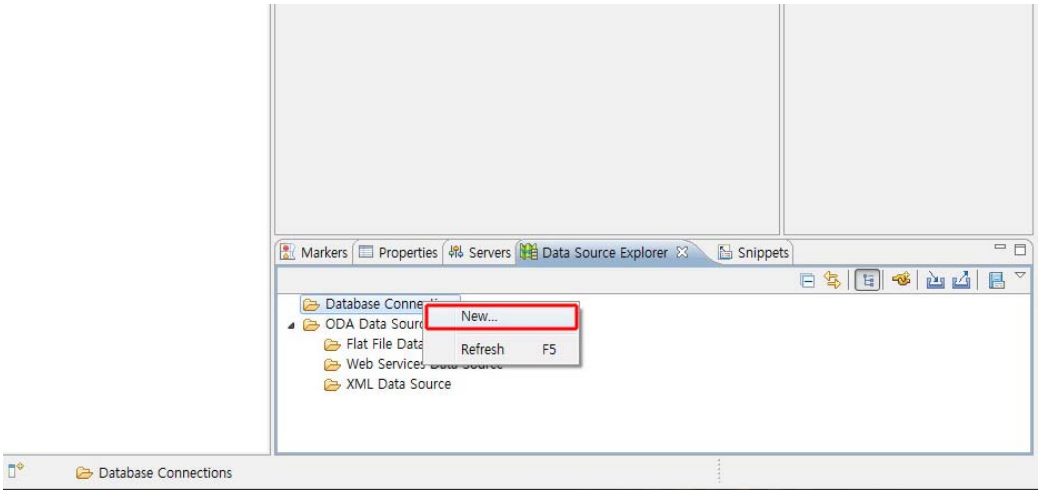
Step 5

- Data Management -> Data Source Explorer 클릭



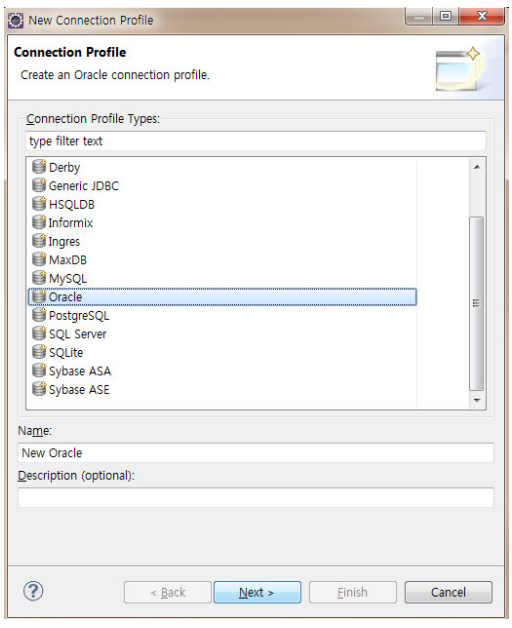
Step 6

- Eclipse 하단에 생성된 Data Source Explorer에서
  Database Connections 우클릭 -> New 클릭



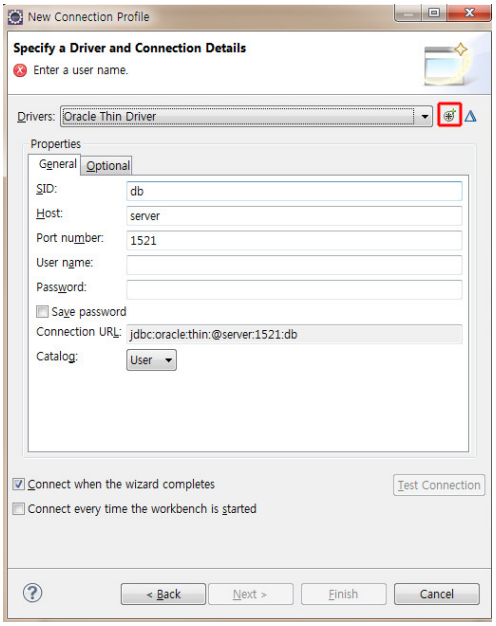
Step 7

- Oracle을 선택하고 Next 클릭



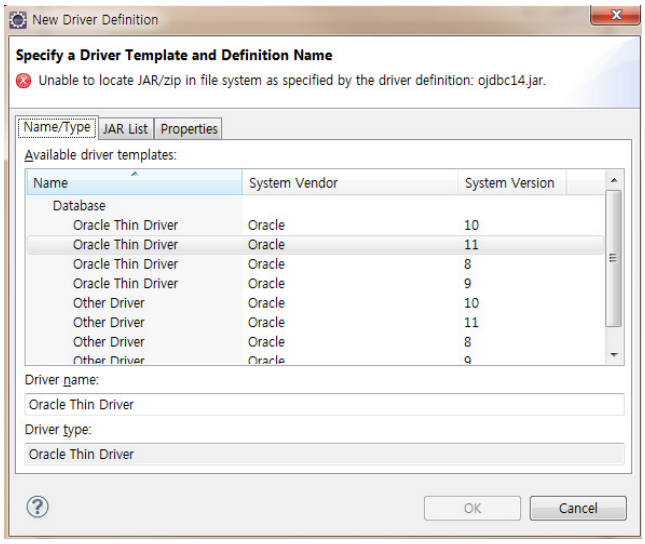
Step 8

- 우측 상단의 빨간색 네모를 클릭



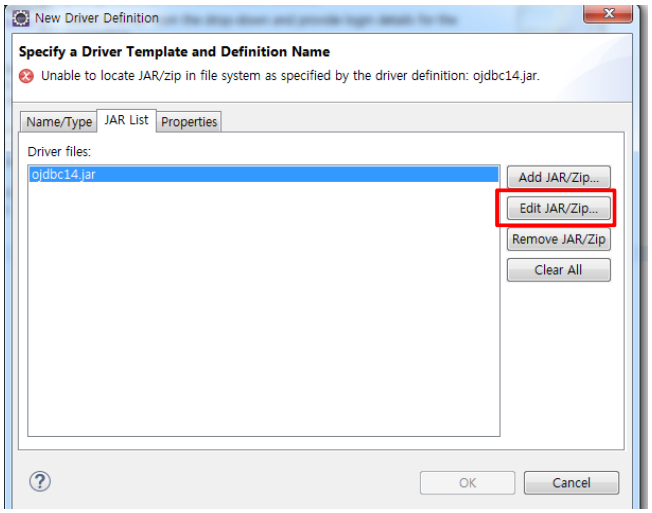
Step 9

- System Version 이 11인 Oracle Thin Driver 선택



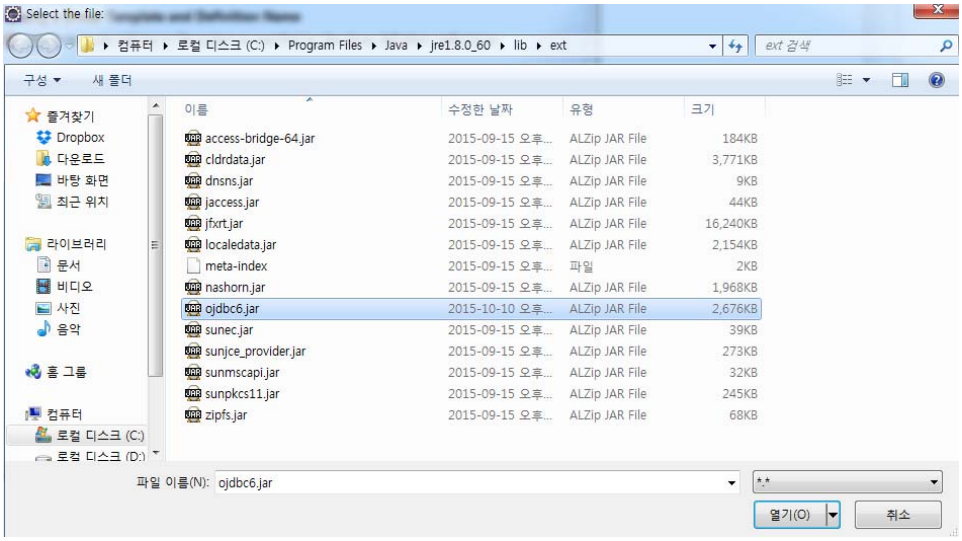
Step 10

- JAR List 탭에서 ojdbc14.jar를 클릭 후 Edit JAR/Zip…을 클릭



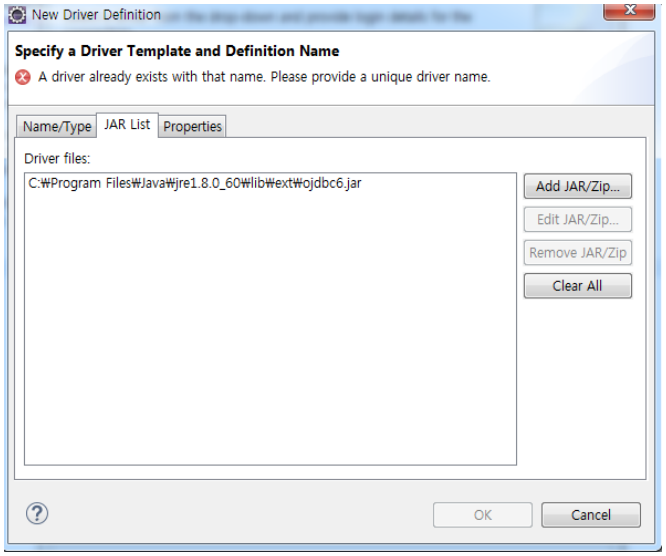
Step 11

- Step 3에서 이동시킨 ojdbc6.jar 파일을 선택



Step 12

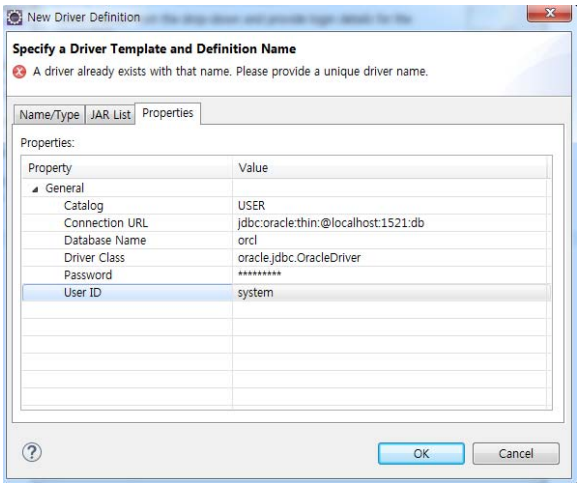
- ojdbc6.jar를 선택하면 아래의 그림과 같음



Step 13

- Properties 탭에서 오른쪽의 그림과 같이 Connection URL, Database Name, Password, User ID를 바꿔고 OK버튼 클릭

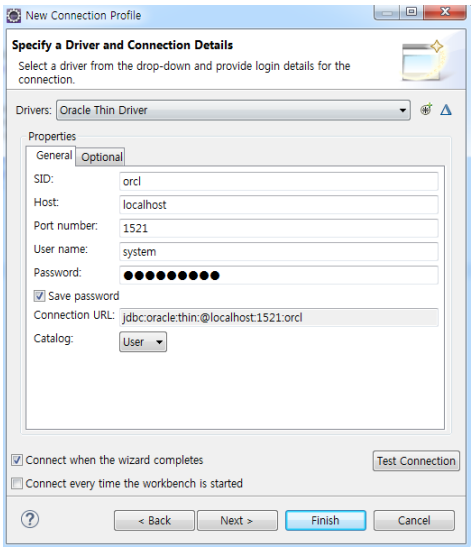
- Password는 오라클 설치 때 만든 password와 같음



Step 14

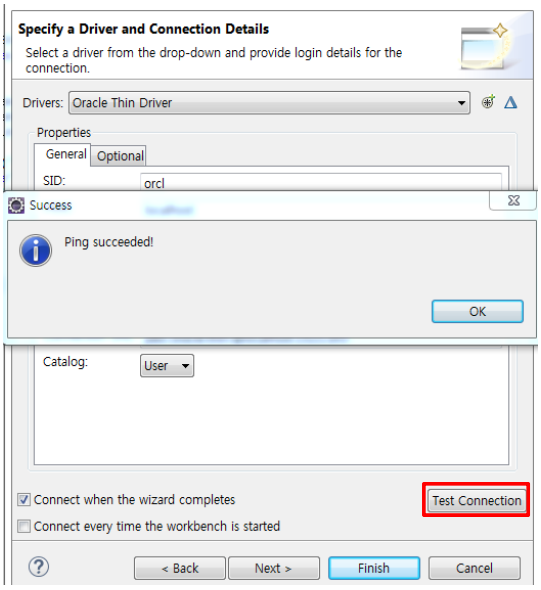
- Ok 버튼을 클릭하면 오른쪽의 그림과 같이 나옴

- 그림과 같이 SID, Host, User name, Password를 바꿈



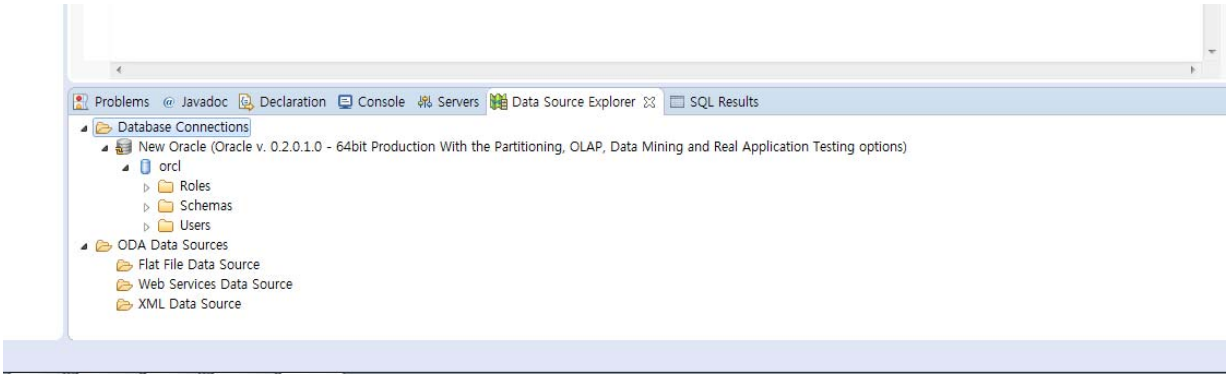
Step 15

- Test connection 버튼을 클릭 시 오른쪽 그림과 같이 창이 뜨면 성공



Step 16

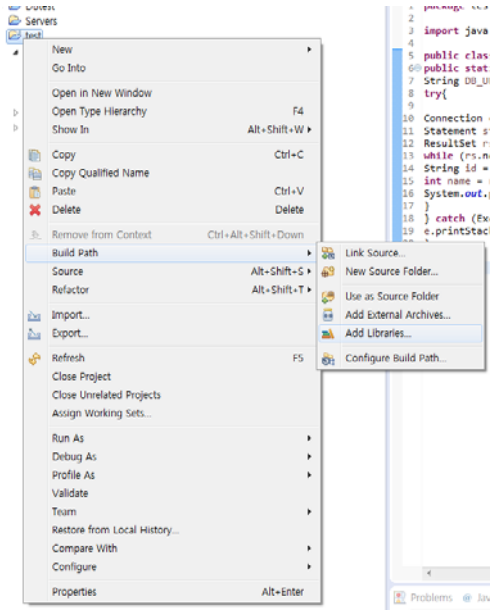
- Finish 버튼을 누르면 Elicpse 하단이 아래의 그림과 같이 변한 것을 확인할 수 있음



Step 17

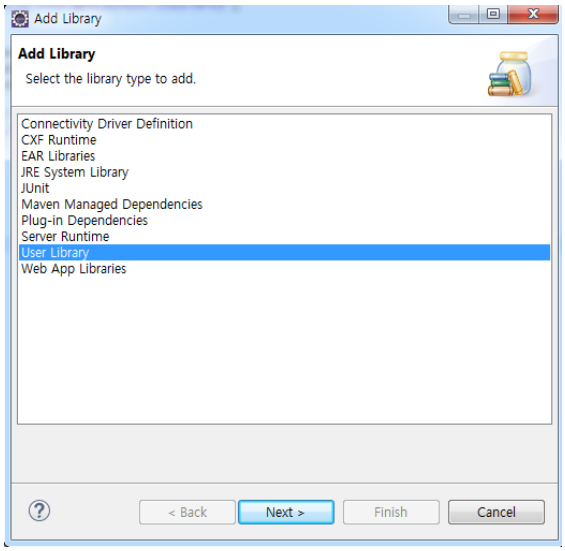
- 작업을 수행하려는 프로젝트에 마우스 우 클릭

- Build Path -> Add Libraries 클릭



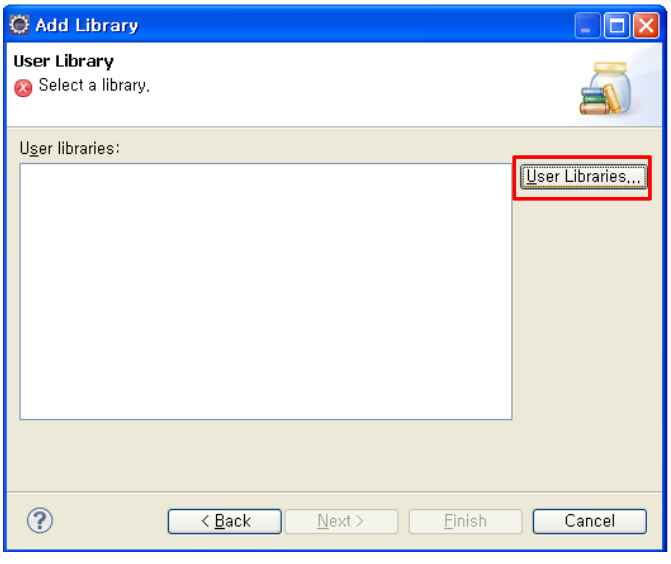
Step 18

- User Library 선택 후 Next 버튼 클릭



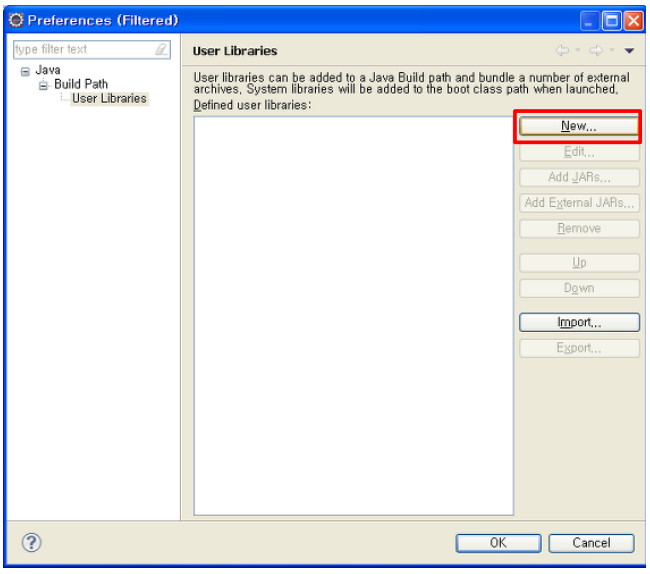
Step 19

- User Libraries 클릭



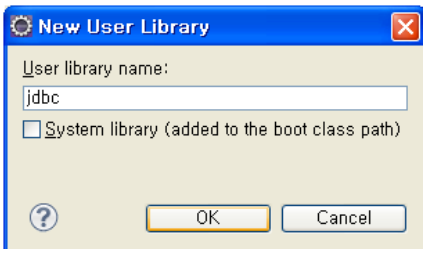
Step 20

- New 버튼을 클릭



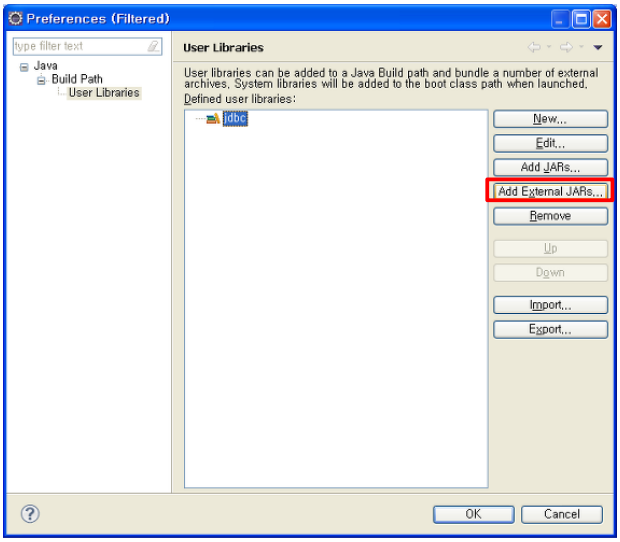
Step 21

- jdbc라 이름을 지정하고 OK버튼을 클릭



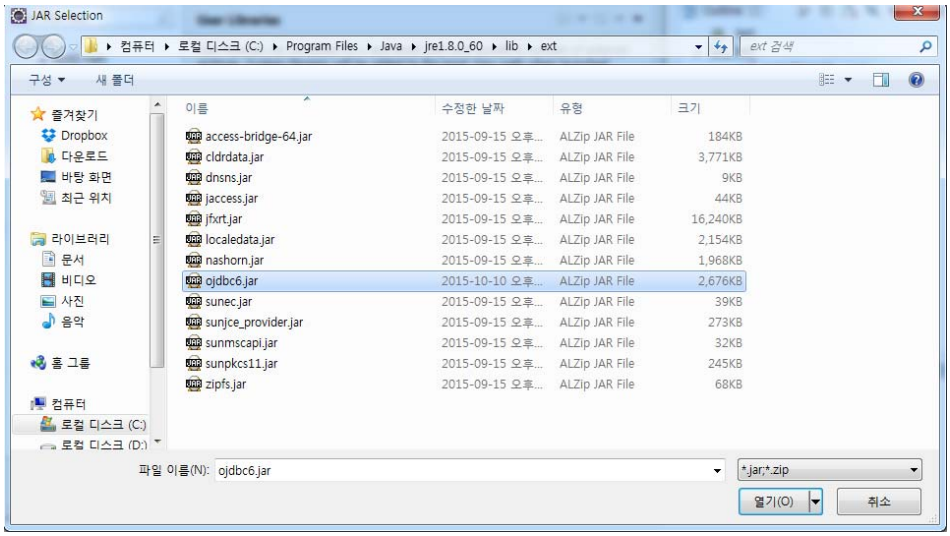
Step 22

- 생성된 jdbc 클릭 후 Add External JARs... 버튼 클릭



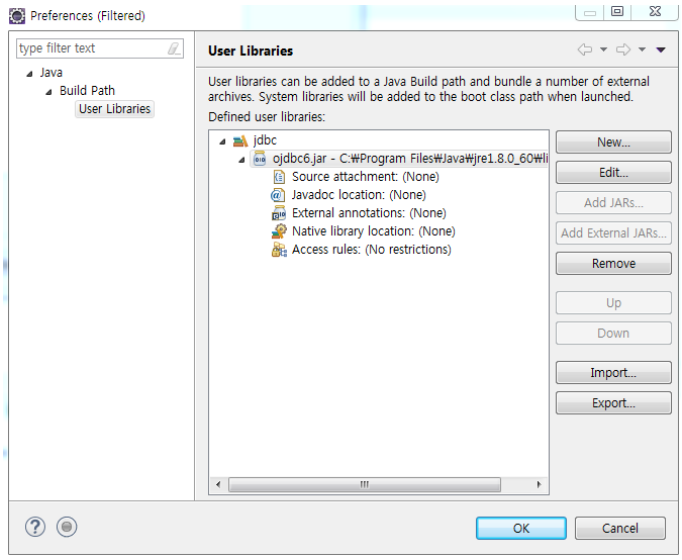
Step 23

- Step 3에서 이동시킨 ojdbc6.jar 파일을 선택



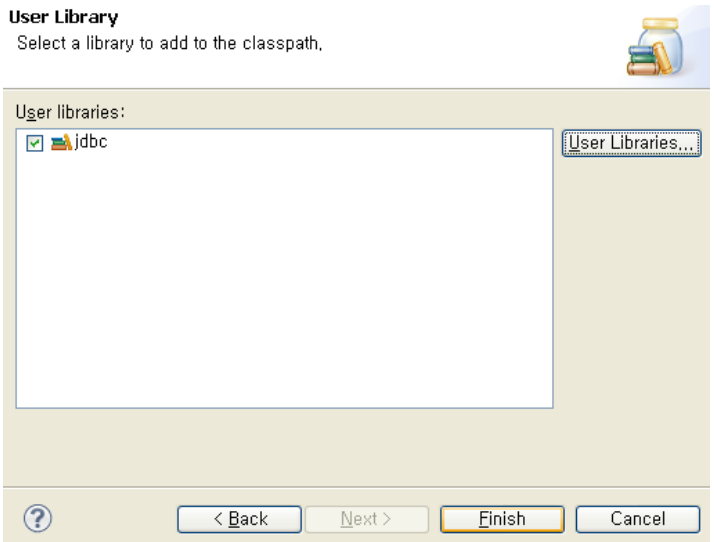
Step 24

- OK 버튼을 클릭



Step 25

- Finish 버튼을 클릭



Step 26

- 프로그램을 실행했을 때 자신이 만든 table에 insert 한 결과 값이 나오면 Eclipse JDBC 연동이 완료

```
import java.sql.*;

public class DBtest {
public static void main(String[] args) {
String DB_URL = "jdbc:oracle:thin:@localhost:1521:orcl";
try{

Connection con = DriverManager.getConnection(DB_URL, "system", "[redacted]");
Statement stmt = con.createStatement();
ResultSet rs = stmt.executeQuery("SELECT name, age FROM testtable");
while (rs.next()) {
String id = rs.getString("name");
int name = rs.getInt("age");
System.out.println(id + " : " + name);
}
} catch (Exception e){
e.printStackTrace();
}
}
}
```