

# Java 連接MySQL

## JDBC

吳佳諺 老師

1. 下載MySQL JDBC連接
2. 將下載的mysql-connector-java-5.1.44-bin.jar套件加入Library
3. 設定mysql的帳號和密碼,localhost為主機

# 1. 下載MyDQL JDBC連接

The screenshot shows the MySQL Connector/J download page. The browser address bar is `dev.mysql.com`. The page has a navigation bar with links: [MySQL.COM](#), [DOWNLOADS](#) (active), [DOCUMENTATION](#), and [DEVELOPER ZONE](#). Below this is a sub-navigation bar with links: [Enterprise](#), [Community](#) (active), [Yum Repository](#), [APT Repository](#), [SUSE Repository](#), [Windows](#), and [Archives](#).

The main content area is titled "Download Connector/J". It states: "MySQL Connector/J is the official JDBC driver for MySQL." and "Online Documentation:". Below this are links: [MySQL Connector/J Installation Instructions](#), [Documentation](#), [MySQL Connector/J X DevAPI Reference \(requires Connector/J 8.0\)](#), and [Change History](#).

A sidebar on the left lists various MySQL products, with "MySQL Connectors" expanded, showing options like Connector/ODBC, Connector/Net, Connector/J (selected), Connector/Node.js, Connector/Python, Connector/C++, Connector/C, and MySQL Native Driver for PHP.

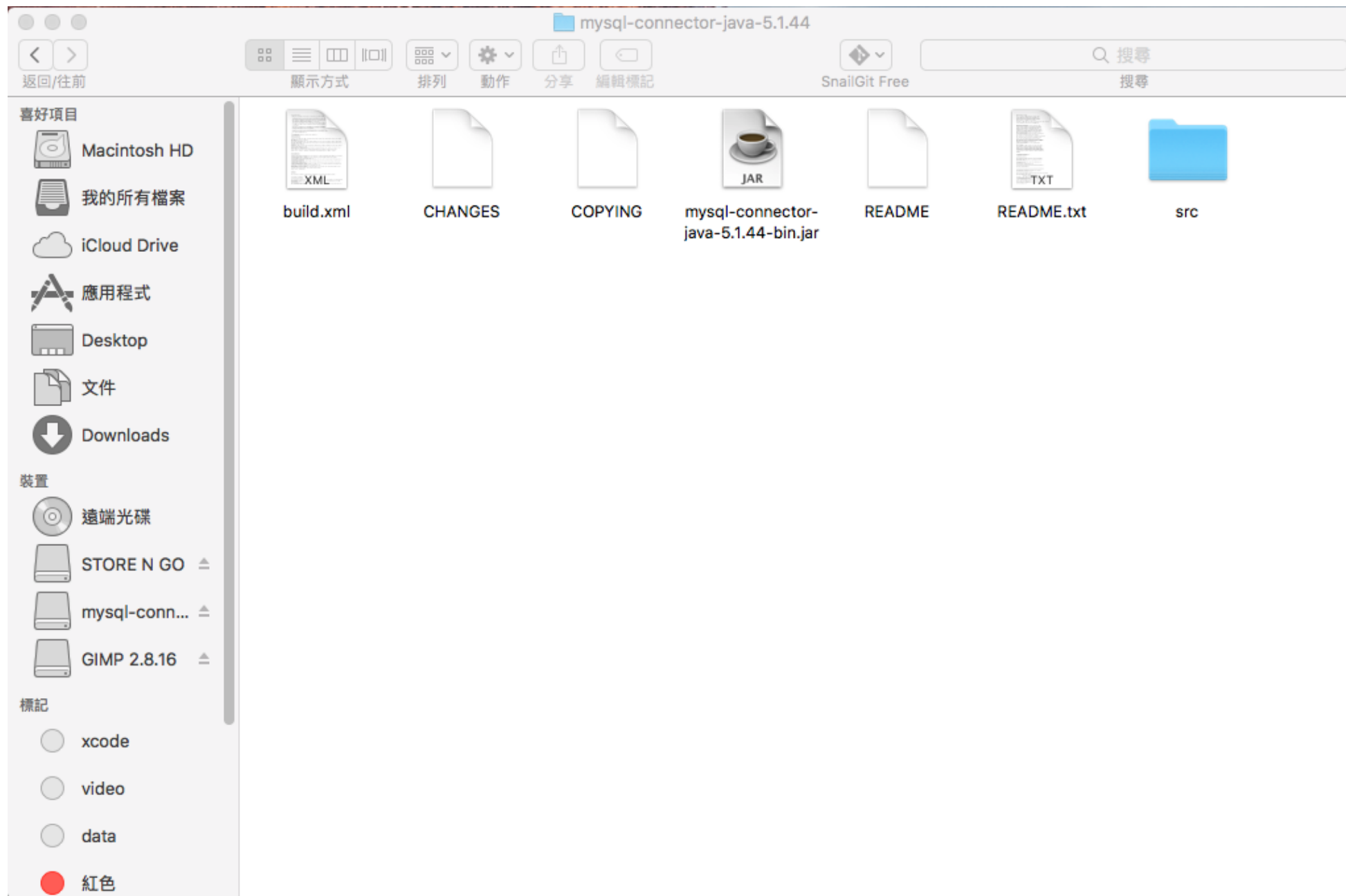
At the bottom of the main content area, there are two tabs: "Generally Available (GA) Releases" (active) and "Development Releases". Under the GA tab, the version "Connector/J 5.1.44" is selected. A "Select Operating System:" dropdown is present. Below this, a table lists download options:

Platform Independent (Architecture Independent), Compressed TAR Archive	5.1.44	3.3M	<a href="#">Download</a>
(mysql-connector-java-5.1.44.tar.gz)		MD5: 526d4f3b2b127abcc25b575ece2c54d1   <a href="#">Signature</a>	
Platform Independent (Architecture Independent), ZIP Archive	5.1.44	3.6M	<a href="#">Download</a>
(mysql-connector-java-5.1.44.zip)		MD5: e96f0681196a466e90ca887bb9828028   <a href="#">Signature</a>	

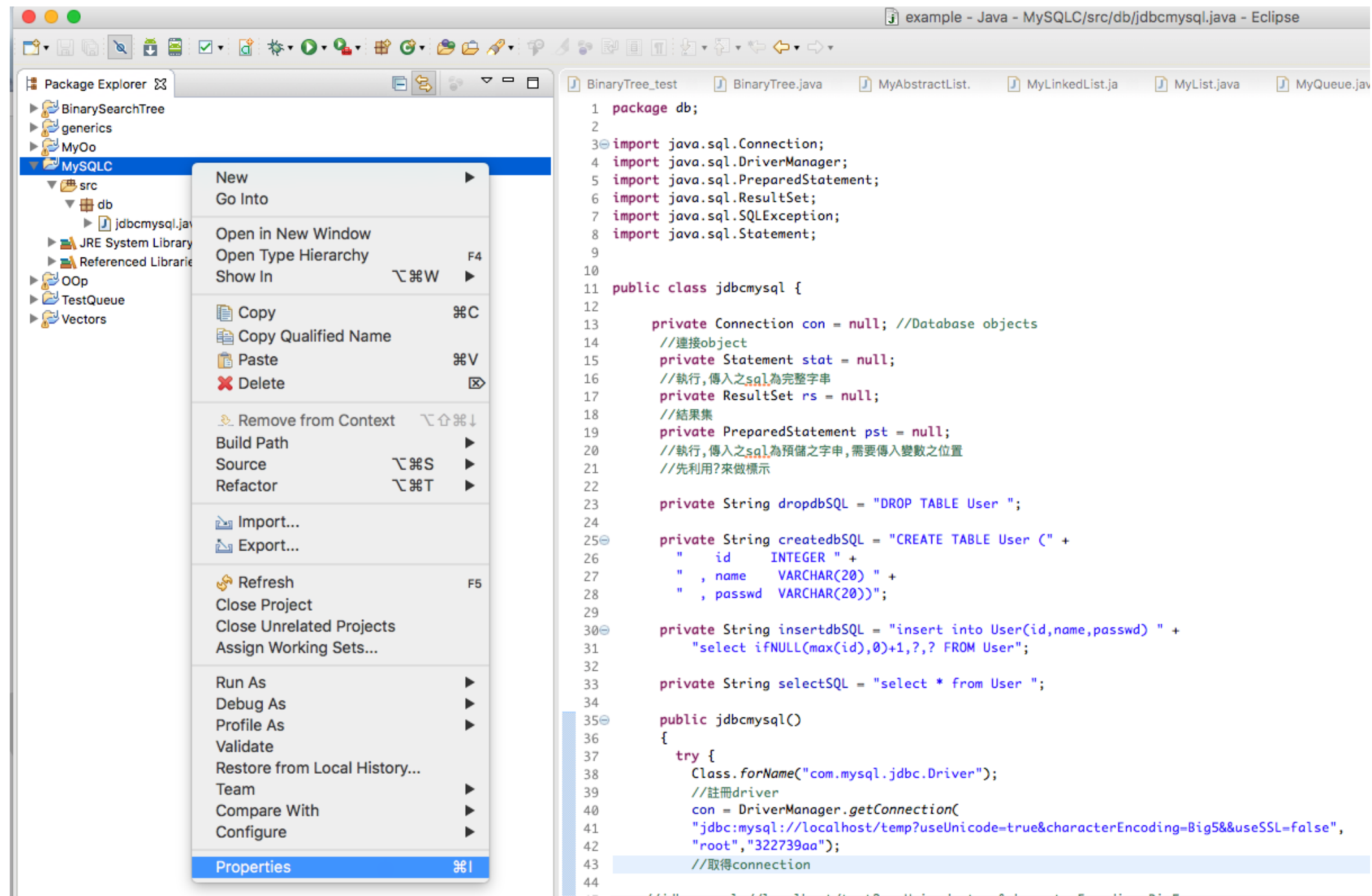
Below the table, a note states: "We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download."

On the right side of the page, a blue box contains the text: "MySQL open source software is provided under the [GPL License](#). OEMs, ISVs and VARs can purchase commercial licenses."

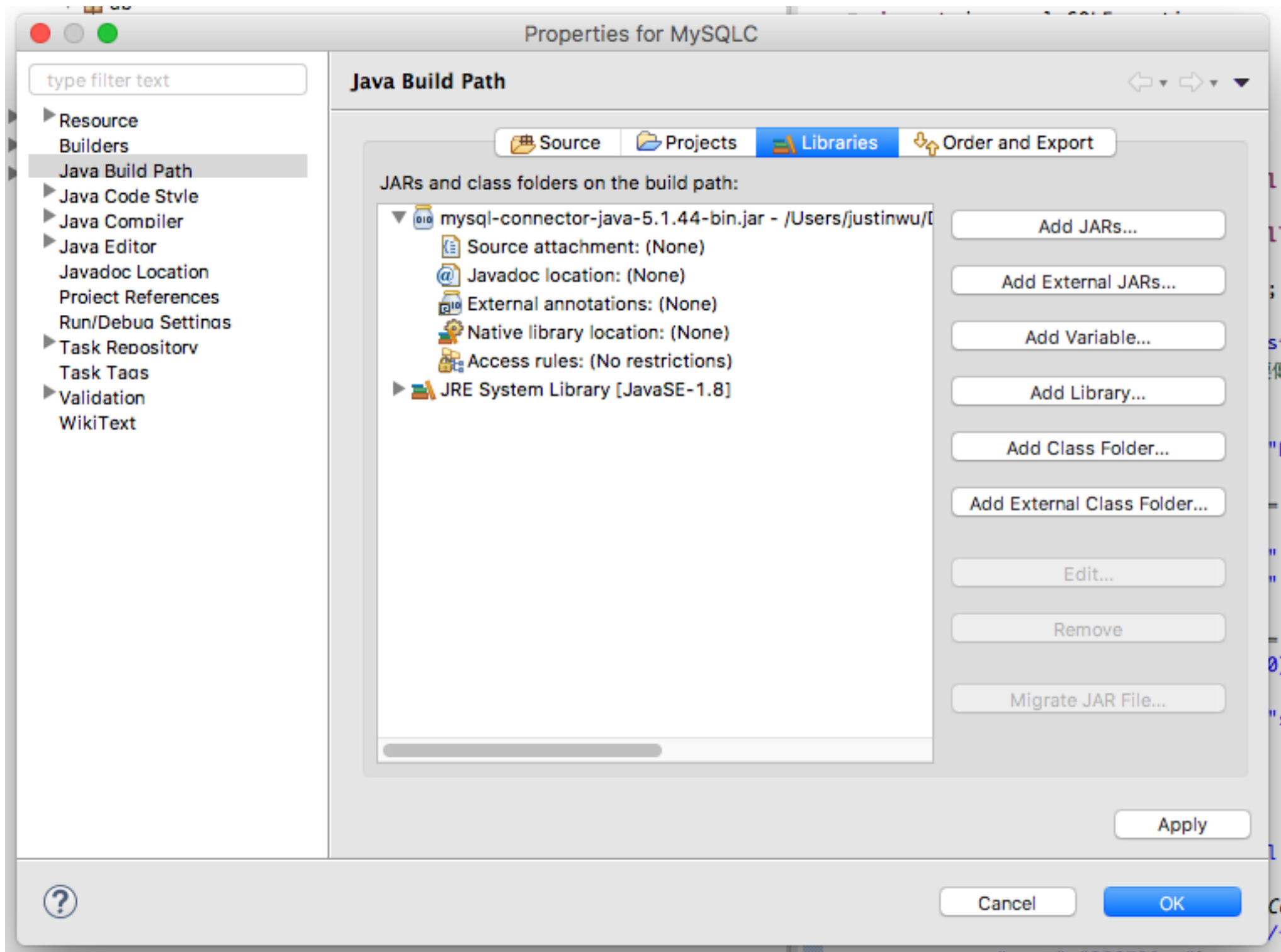
## 2.將下載的mysql-connector-java-5.1.44-bin.jar套件加入Library



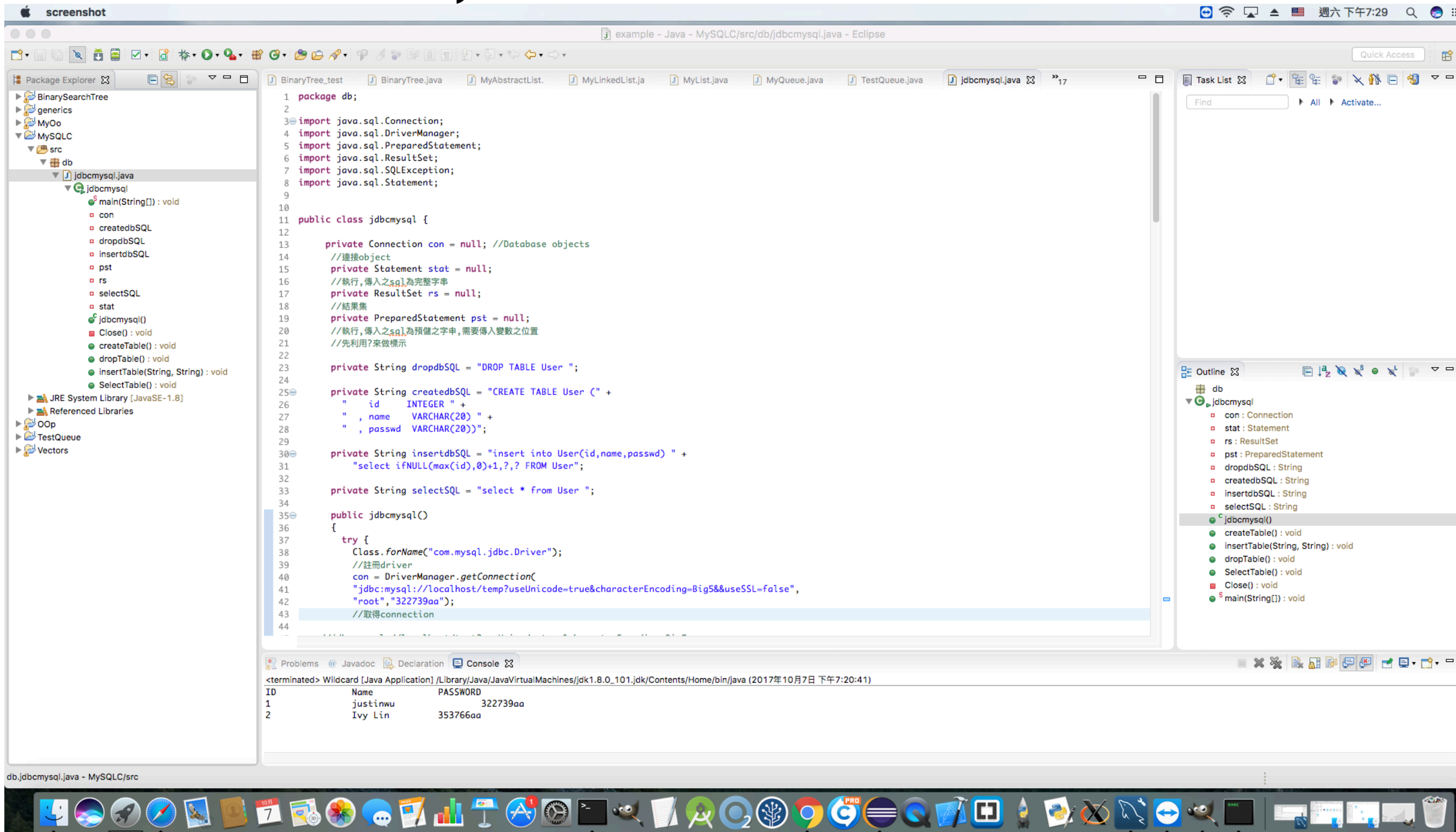
# 將下載的mysql-connector-java-5.1.44-bin.jar套件加入Library



# 選取Add External JARs將下載的mysql-connector-java-5.1.44-bin.jar套件加入Library



# 41,42行設定mysql的帳號和密碼,localhost為主機





screenshot

example - Java - MySQLC/src/db/jdbcmysql.java - Eclipse

Package Explorer

- BinarySearchTree
- generics
- MyOo
- MySQLC
  - src
    - db
      - jdbcmysql.java
- JRE System Library [JavaSE-1.8]
- Referenced Libraries
- OOp
- TestQueue
- Vectors

Task List

Find

Outline

- db
  - jdbcmysql
    - con : Connection
    - stat : Statement
    - rs : ResultSet
    - pst : PreparedStatement
    - dropdbSQL : String
    - createdbSQL : String
    - insertdbSQL : String
    - selectSQL : String
    - jdbcmysql()
      - createTable() : void
      - insertTable(String, String) : void
      - dropTable() : void
      - SelectTable() : void
      - Close() : void
      - main(String[]) : void

```
45 //jdbc:mysql://localhost/test?useUnicode=true&characterEncoding=Big5
46 //localhost是主機名,test是database名
47 //useUnicode=true&characterEncoding=Big5使用的編碼
48 //useSSL 不使用SSL連接
49
50 }
51 catch(ClassNotFoundException e)
52 {
53     System.out.println("DriverClassNotFound :"+e.toString());
54 }//有可能產生SQLException
55 catch(SQLException x) {
56     System.out.println("Exception :"+x.toString());
57 }
58 }
59
60 //建立table的方式
61 //可以看看Statement的使用方式
62 public void createTable()
63 {
64     try
65     {
66         stat = con.createStatement();
67         stat.executeUpdate(createdbSQL);
68     }
69     catch(SQLException e)
70     {
71         System.out.println("CreateDB Exception : " + e.toString());
72     }
73     finally
74     {
75         Close();
76     }
77 }
78 //新增資料
79 //可以看看PreparedStatement的使用方式
80 public void insertTable( String name,String passwd)
81 {
82     try
83     {
84         pst = con.prepareStatement(insertdbSQL);
85
86         pst.setString(1, name);
87         pst.setString(2, passwd);
88         pst.executeUpdate();
89     }
```

Problems @ Javadoc Declaration Console

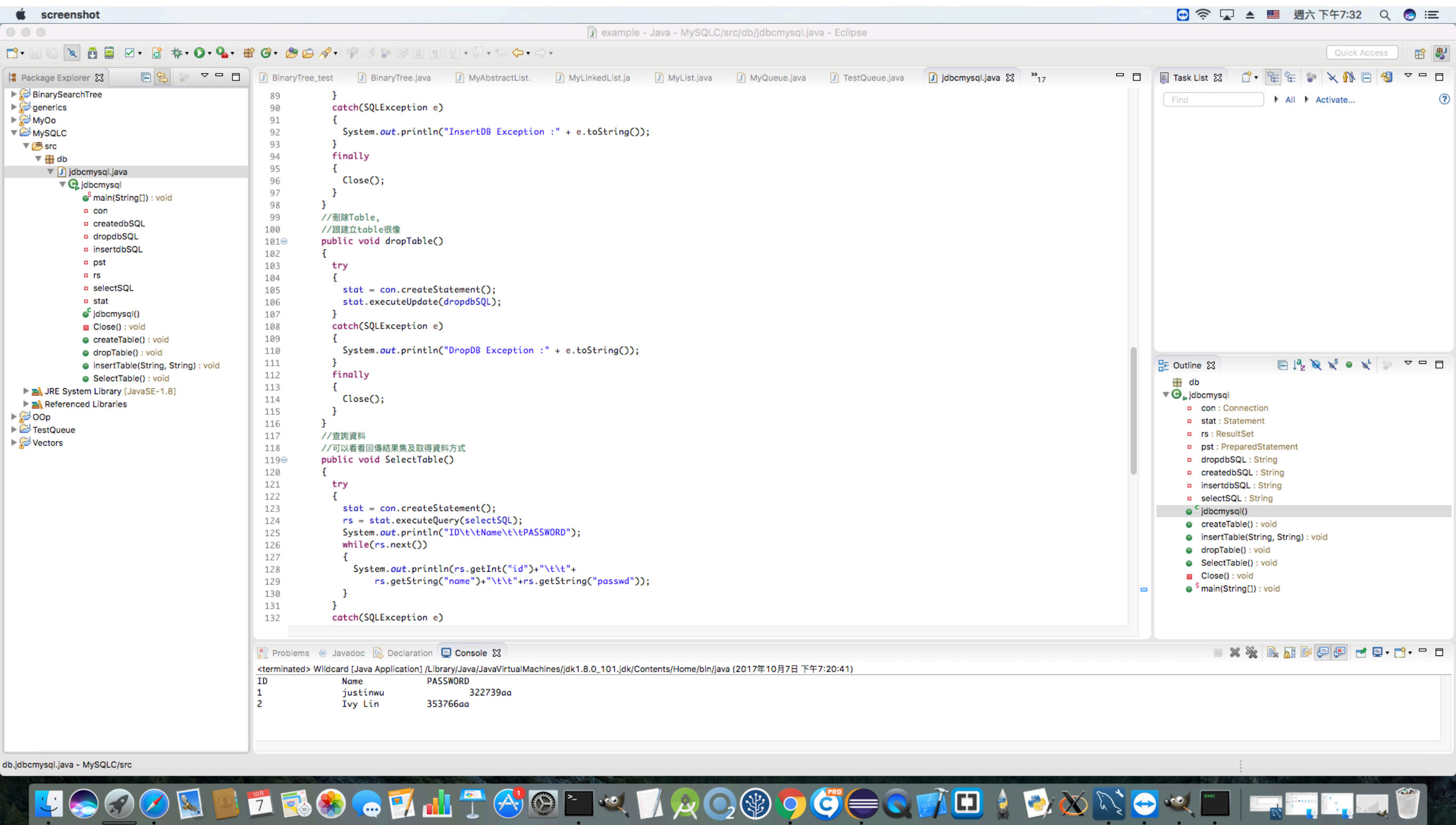
<terminated> Wildcard [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0\_101.jdk/Contents/Home/bin/java (2017年10月7日 下午7:20:41)

ID	Name	PASSWORD
1	justinwu	322739aa
2	Ivy Lin	353766aa

db.jdbcmysql.java - MySQLC/src



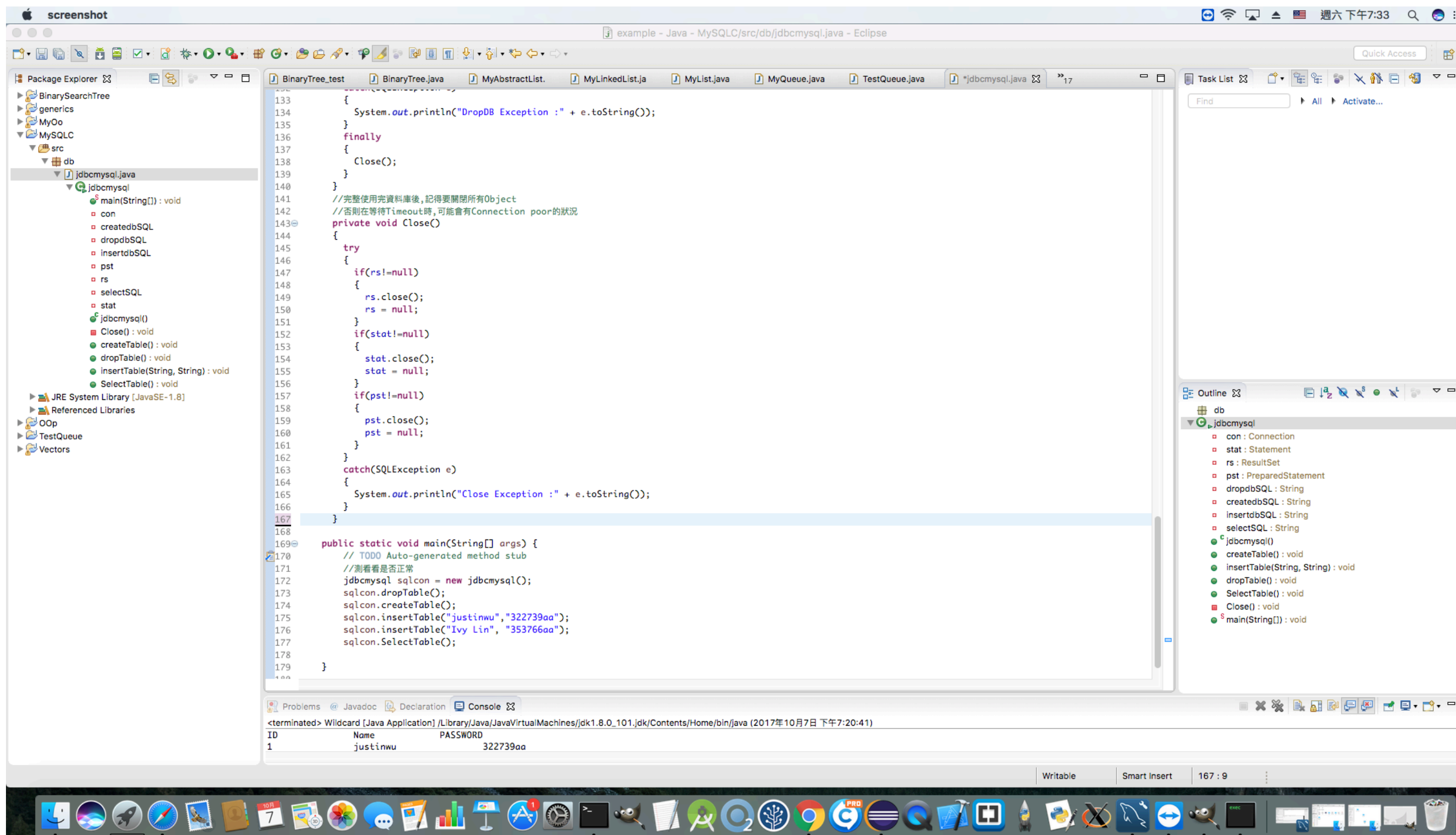




```
89     }
90     catch(SQLException e)
91     {
92         System.out.println("InsertDB Exception :" + e.toString());
93     }
94     finally
95     {
96         Close();
97     }
98 }
99 //刪除Table,
100 //跟建立table很像
101 public void dropTable()
102 {
103     try
104     {
105         stat = con.createStatement();
106         stat.executeUpdate(dropdbSQL);
107     }
108     catch(SQLException e)
109     {
110         System.out.println("DropDB Exception :" + e.toString());
111     }
112     finally
113     {
114         Close();
115     }
116 }
117 //查詢資料
118 //可以看看回傳結果集及取得資料方式
119 public void SelectTable()
120 {
121     try
122     {
123         stat = con.createStatement();
124         rs = stat.executeQuery(selectSQL);
125         System.out.println("ID\t\tName\t\tPASSWORD");
126         while(rs.next())
127         {
128             System.out.println(rs.getInt("id")+"\t\t"+
129                                 rs.getString("name")+"\t\t"+rs.getString("passwd"));
130         }
131     }
132     catch(SQLException e)
```

<terminated> Wildcard [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0\_101.jdk/Contents/Home/bin/java (2017年10月7日 下午7:20:41)

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- Thanks.