

1. Missing Database Driver
2. Database Unreachable
3. Database Not Authorized
4. Syntax error in SQL Statement
5. Error Extracting Data from Result Set (bad column name)
6. Error Extracting Data from Result Set (wrong data type)

For each of the above types of errors:

1. Generate the error and describe (in the word document) how and where you generated the error. The point of this exercise is for you to know how to fix these errors – to fix you just need to reverse what you did to break it.
2. Copy/paste (into the word document) the exact error message you got - either from the JSP page that you see in the browser or from the GlassFish log. You can use the first project First_DB_WebAPIs.zip (or the second...)
3. For better publishing/viewing, save your document as a pdf.

```
▼ {
  "dbError": "",
  ▼ "webUserList": [
    ▼ {
      "webUserId": "",
      "userEmail": "",
      "userPassword": "",
      "image": "",
      "birthday": "",
      "membershipFee": "",
      "userRoleId": "",
      "userRoleType": "",
      "errorMsg": "Exception thrown trying to connect. Error is: Access denied for user 'sallyk'@'cis-linux2.temple.edu' (using password: YES)"
    }
  ]
}
```

Wrong password was entered

"errorMsg": "Exception thrown trying to connect. Error is: Access denied for user 'sallyk'@'cis-linux2.temple.edu' (using password: YES)"

```
▼ {
  "dbError": "",
  ▼ "webUserList": [
    ▼ {
      "webUserId": "",
      "userEmail": "",
      "userPassword": "",
      "image": "",
      "birthday": "",
      "membershipFee": "",
      "userRoleId": "",
      "userRoleType": "",
      "errorMsg": "Exception thrown trying to find MySQL Drivers. Error is: com.mysql.jdbc.Driver"
    }
  ]
}
```

Missing jar driver

"errorMsg": "Exception thrown trying to find MySQL Drivers. Error is: com.mysql.jdbc.Driver"

```
{
  "dbError": "",
  "webUserList": [
    {
      "webUserId": "",
      "userEmail": "",
      "userPassword": "",
      "image": "",
      "birthday": "",
      "membershipFee": "",
      "userRoleId": "",
      "userRoleType": "",
      "errorMsg": "Exception thrown trying to connect. Error is: Communications link failure The last packet sent successfully to the server was 0 milliseconds ago. The driver has not received any packets from the server."
    }
  ]
}
```

Not tunneled in

"errorMsg": "Exception thrown trying to connect. Error is: Communications link failure The last packet sent successfully to the server was 0 milliseconds ago. The driver has not received any packets from the server."

```
{
  "dbError": "",
  "webUserList": [
    {
      "webUserId": "",
      "userEmail": "",
      "userPassword": "",
      "image": "",
      "birthday": "",
      "membershipFee": "",
      "userRoleId": "",
      "userRoleType": "",
      "errorMsg": "Exception thrown compiling this SQL (SELECT web_user_id, user_emailx FROM web_user ORDER BY web_user_id ). Error is: Unknown column 'user_emailx' in 'field list'"
    }
  ]
}
```

"errorMsg": "Exception thrown compiling this SQL (SELECT web_user_id, user_emailx FROM web_user ORDER BY web_user_id). Error is: Unknown column 'user_emailx' in 'field list'"

Bad column name in sql statement

```
▼ {
  "dbError": "",
  ▼ "webUserList": [
    ▼ {
      "webUserId": "1",
      "userEmail": "",
      "userPassword": "",
      "image": "",
      "birthday": "",
      "membershipFee": "",
      "userRoleId": "",
      "userRoleType": "",
      "errorMsg": "Exception thrown while extracting data from result set. Error is: Column 'user_email' not found."
    },
    ▼ {
      "webUserId": "2",
      "userEmail": "",
      "userPassword": ""
    }
  ]
}
```

sd.userEmail = results.getString("user_email"); //Error Extracting Data from Result Set (bad column name)
"errorMsg": "Exception thrown while extracting data from result set. Error is: Column 'user_email' not found."

```
▼ {
  "dbError": "",
  ▼ "webUserList": [
    ▼ {
      "webUserId": "",
      "userEmail": "",
      "userPassword": "",
      "image": "",
      "birthday": "",
      "membershipFee": "",
      "userRoleId": "",
      "userRoleType": "",
      "errorMsg": "Exception thrown while extracting data from result set. Error is: Bad format for DATE '1' in column 1."
    },
    ▼ {
      "webUserId": "",
      "userEmail": "",
      "userPassword": ""
    }
  ]
}
```

sd.webUserId = String.valueOf(results.getDate("web_user_id"));
web_user_id gives us an int and .getDate method requires a date format.

"errorMsg": "Exception thrown while extracting data from result set. Error is: Bad format for DATE '1' in column 1."