
INFS3202/INFS7202 Web Information Systems

Practical 7 – Oracle + JSP

The goal of this practical is to explore JSP and Oracle. This assignment counts for 5% of the total unit assessment. You must present this practical to your lab tutor during your scheduled lab session. There is only 1 task.

In case of holiday for a practical session, the deadline will be postponed to its immediate next week for that practical session

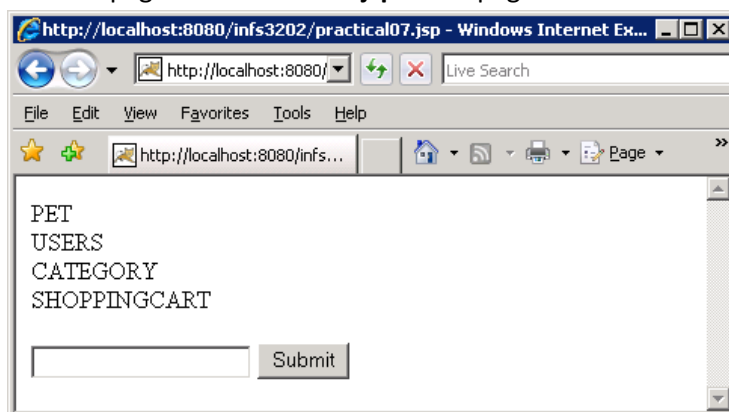
A step-by-step guide is provided for you to do this prac. Discussion with your classmates and seeking help from your lab tutor are permitted; however, it is not allowed to copy other people's code, except those used in the lectures.

Marking guideline: there is only one task. The making guideline will be discussed in the task.

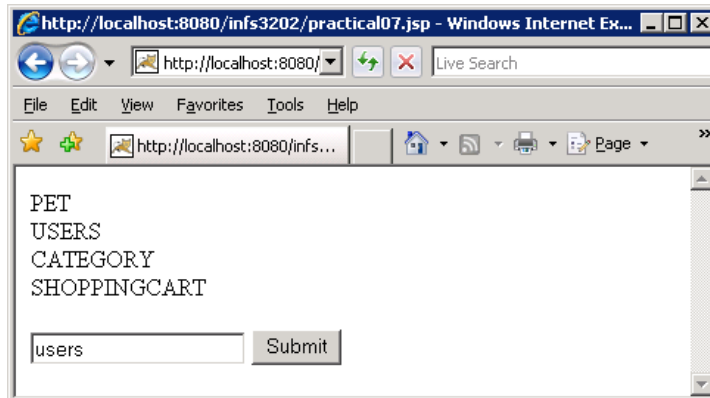
Task – Database Explorer

In this task, you are going to make a simple database explorer.

1. Download the data file from <http://www.itee.uq.edu.au/~infs3202/practical07.zip> and unzip it. There should be two files: create.txt and insert.txt.
2. Open SQL Plus (follow lecture notes)
3. Copy the contents of create.txt and paste them to SQL Plus.
 - Now, you should create four tables: pet, users, category and shoppingcart. Type “SELECT table_name FROM user_tables” to see if you have created the tables.
4. Copy the contents of insert.txt and paste them to SQL Plus.
 - Now, you should inserted records into these tables. Type “SELECT * FROM <tablename>” to see if you have inserted records to the tables.
5. Create a page called “**browse.jsp**”. This page contains all of the user tables in Oracle:



6. When the user type the name of a table, details of the table will be appeared **in a new window**:



Marking guideline:

- Successfully create the four tables and insert the records into the tables. **(1%)**
- Display all tables in the page browse.jsp. **(1%)**
- When the user type a table name, the correct table is displayed **(1%)** in a new window. **(0.5%)**
- Tables' headers (i.e. the names of the columns) are displayed correctly. **(1%)**
- The programs are readable while the total number of lines of all programs is less than 70. **(0.5%)**

Hint:

- a. The SQL query for listing all of the tables in an Oracle database is:
SELECT table_name FROM user_tables
- b. Refer to <http://java.sun.com/javase/6/docs/api/java/sql/ResultSet.html> for the details of the class *ResultSet*.
- c. In the class *ResultSet*, you can always use *getString(...)* to retrieve a column's values, regardless the actual datatype of the column. Note that the first column is 1 but not 0.

- d. The method that is used to get a table's meta data (e.g. a table's headers) is *getMetaData()* in *ResultSet*. *getMetaData()* returns the class *ResultSetMetaData*. (<http://java.sun.com/javase/6/docs/api/java/sql/ResultSetMetaData.html>).
- e. In the class *ResultSetMetaData*, the method that is used to get the name of a column of a table is called *getColumnName(...)*. Note that the first column is 1 but not 0.
- f. In the class *ResultSetMetaData*, the method that is used to get the number of columns in a table is called *getColumnCount()*.