```
1)
1.1)
sglite3 account.db
SQLite version 3.7.17 2013-05-20 00:56:22
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
1.2)
create table lab4_account (account_number_char(10) primary key, balance double not null);
1.3)
insert into lab4_account values('A001', 100);
insert into lab4_account values('B001', 999);
insert into lab4_account values('C001', 99.99);
1.4)
select * from lab4_account;
A001|100.0
B001|999.0
C001|99.99
1.6)
Is -I accounts.db
-rwx----. 1 djlamber isilon_du 3072 Apr 24 09:31 account.db
file account.db
account.db: SQLite 3.x database
1.3)
import java.sql.*;
public class SQLiteJDBC {
  public static void main(String args[]) {
       Connection c = null;
       Statement stmt = null;
       try {
               Class.forName("org.sqlite.JDBC");
               c = DriverManager.getConnection("jdbc:sqlite:account.db");
               stmt = c.createStatement();
               ResultSet rs = stmt.executeQuery("SELECT * FROM lab4_account;");
               System.out.println("Acc# Balance");
               while (rs.next()) {
```

```
String accNo = rs.getString("account_number");
                     double balance = rs.getDouble("balance");
                     System.out.println(accNo + " " + balance);
              }
              rs.close();
              stmt.close();
              c.close();
       } catch (Exception e) {
              System.err.println(e.getClass().getName() + ": " + e.getMessage());
              System.exit(0);
       }
 }
Compiled in Eclipse
Output:
Acc# Balance
A001 100.0
B001 999.0
C001 99.99
2.2.2)
a)
/*/*/*/RAM/data()
1024
512
512
1024
2048
1024
2048
b)
/*/*/@price/data()
2114
995
1150
2500
959
649
3673
239
100
```

```
200
c)
/*/*/@name/data()
Α
В
Н
d)
/*/Maker[Printer/Type = "laser"]/@name/data()
Н
e)
/*/Maker[PC or Laptop]/@name/data()
Α
В
f)
/*/Maker[count(PC)>=2]/@name/data()
Α
В
2.3)
let $products := doc("products.xml")
for $maker in $products//Maker
where count($maker/PC[Speed > 2.0]) >=2
return <Maker name="{$maker/@name}" />
```

<Maker name="A"/>

## https://classdb.it.mtu.edu/~djlamber/listbookJSON.html

## **Book Store JSONHttpRequest**

```
List Book Collection
 ISBN: 0123456001
 Title: Java For Dummies
 Author: Tan Ah Teck
 Price: 19.99
 ISBN: 0123456002
 Title: More Java For Dummies
 Author: Tan Ah Teck
Price: 25.99
 ISBN: 0123456010
 Title: The Complete Guide to Fishing
 Author: Bill Jones, James Cook, Mary Turing
Price: 49.99
ISBN: 0123456103
 Title: The Great Gatsby
 Author: F. Scott Fitzgerals
 Price: 9.99
Source Code:
<!DOCTYPE html>
<html>
<body>
<h2>Book Store</h2>
<button type="button" onclick="LoadJSONDoc()"> List Book Collection JSONHttpRequest
</button>
 Data will go here
<script>
function LoadJSONDoc(){
 var xhttp=new XMLHttpRequest();
 xhttp.onreadystatechange = function(){
   if(xhttp.readyState == 4 && xhttp.status == 200){
    displayBook(xhttp.responseText);
  }
 }
 xhttp.open("GET", "bookstore.json", true);
 xhttp.send();
}
function displayBook(bookdata){
 var bookstore = JSON.parse(bookdata);
 var books = bookstore.book;
```

```
var details = "";
 for(i=0; i<books.length; i++){</pre>
   var book = books[i];
   details = details + "ISBN: " + book["-ISBN"]+"<br/>";
   details = details + "Title: " + book["title"]+"<br/>";
   details = details + "Author: " + book["author"]+ "<br/>";
   details = details + "Price: " + book["price"]+ "<br/>";
 }
 document.getElementById("demo").innerHTML=details;
</script>
</body>
</html>
4)
https://classdb.it.mtu.edu/~djlamber/listbookXML.html
 Book Store XMLHttpRequest
 List Book Collection
 ISBN:0123456001
 Title: Java For Dummi
Author: Tan Ah Teck
Price: 19.99
 Book1
ISBN:0123456002
 Title: More Java For Dummies
 Author: Tan Ah Teck
 Price: 25.99
 Book2
ISBN:0123456010
 Title: The Complete Guide to Fishing Author: Bill Jones
 Author: James Cook
Author: Mary Turing
 Price: 49.99
 ISBN:0123456219
 Title: The Great Gatsby
Author: F. Scott Fitzgerald
Price: 9.99
<!DOCTYPE html>
<html>
<body>
<h2>Book Store XMLHttpRequest</h2>
<button type="button" onclick="LoadXMLDoc()"> List Book Collection </button>
 Data will be here
<script>
```

```
function LoadXMLDoc(){
 var xhttp = new XMLHttpRequest();
 xhttp.onreadystatechange = function (){
  if(xhttp.readyState == 4 && xhttp.status == 200){
   displayBook(xhttp.responseXML);
  }
 xhttp.open("GET","bookstore.xml", true);
 xhttp.send();
}
function displayBook(xmlDoc){
 var information="";
 books = xmlDoc.getElementsByTagName("book");
 for(i=0; i<books.length; i++){</pre>
  information = information.concat("Book", i, "<br/>");
  information = information.concat("&nbsp", "ISBN:", books[i].attributes[0].nodeValue, "<br/>br/>");
  children = books[i].childNodes;
  for(j=0; j<children.length; j++){
   if(children[j].nodeType == 1 && children[j].nodeName == "title") {
     information = information.concat("&nbsp", "Title: ");
     information = information.concat(children[j].childNodes[0].nodeValue,"<br/>);
   }
   if(children[j].nodeType == 1 && children[j].nodeName == "author"){
     information = information.concat("&nbsp", "Author: ");
     information = information.concat(children[j].childNodes[0].nodeValue, "<br/>");
   }
   if(children[j].nodeType == 1 && children[j].nodeName == "price"){
     information = information.concat("&nbsp", "Price: ");
     information = information.concat(children[j].childNodes[0].nodeValue, "<br/>br/>");
   }
  }
 information = information.concat("<br/>");
document.getElementById("demo").innerHTML=information;
}
</script>
</body>
</html>
5)
```

https://classdb.it.mtu.edu/~djlamber/activity.html