Java How to Program, 8/e, Errata

REPLACEMENT FOR EXERCISE 31.3:

(*Phone Book Web Service*) Create a web service that stores phone book entries in the database PhoneBookDB and a web client application that consumes this service. Use the steps in Section 30.2.1 to create the PhoneBook database. The database contains one table—**PhoneBook**—with three columns—**LastName**, **FirstName** and **PhoneNumber**—each of type **VARCHAR**. The **LastName** and **FirstName** columns store up to 30 characters. The **PhoneNumber** column should support phone numbers of the form (800) 555-1212 that contain 14 characters.

Give the client user the capability to enter a new contact (web method **addEntry**) and to find contacts by last name (web method **getEntries**). Pass only **Strings** as arguments to the web service. The **getEntries** web method should return an array of **Strings** that contains the matching phone book entries. Each **String** in the array should consist of the last name, first name and phone number for one phone book entry. These values should be separated by commas.

The SELECT query that will find a PhoneBook entry by last name should be:

```
SELECT LastName, FirstName, PhoneNumber
FROM PhoneBook
WHERE (LastName = LastName)
```

The **INSERT** statement that inserts a new entry into the **PhoneBook** database should be:

INSERT INTO PhoneBook (LastName, FirstName, PhoneNumber)
VALUES (LastName, FirstName, PhoneNumber)

[Note: Here is the SQL code to create the database]

```
DROP TABLE PhoneBook;
CREATE TABLE PhoneBook
(
    FirstName VARCHAR (50) NOT NULL,
    LastName VARCHAR (50) NOT NULL,
    PhoneNumber VARCHAR (50) NOT NULL
);
INSERT INTO PhoneBook (FirstName,LastName,PhoneNumber)
    VALUES ('Bob', 'Green', '5555551111'),
        ('Sue', 'Black', '5555552222'),
        ('Liz', 'White', '5555553333'),
        ('Paul', 'Blue', '5555554444')
```

REPLACEMENT FOR EXERCISE 31.4:

(*Phone Book Web Service Modification*) Modify Exercise 31.3 so that it uses a class named **PhoneBookEntry** to represent a row in the database. The client application should provide objects of type **PhoneBookEntry** to the web service when adding contacts and should receive objects of type **PhoneBookEntry** when searching for contacts.