

Assignment 5: XML

This assignment addresses XML access and use in Oracle. Its problems are (loosely) related to the mail-order database we've used previously. The assignment can be completed individually or with a (one) partner.

1. The file "orders.xml" on Blackboard represents orders taken for the mail-order database.

The file "OrderData.java" on Blackboard is a Java program intended to parse orders.xml using a SAX parser to generate INSERT statements to populate the mail-order database, including appropriate error processing. You will need to complete the program by adding code in two locations that generate the actual INSERT statements for the orders and odetails tables, respectively. Note: You do NOT need to execute the SQL on our Oracle server (e.g., through JDBC) – though you might want to yourself for testing purposes. Your deliverable will just be a hard copy printout of the output from OrderData.java.

2. The file "52data.sql" on Blackboard is an implementation of a version of the mail-order database using XML, with tables xorders, xcustomers, xparts and xemployees – including both the schema for the database and populating INSERT statements.

Write SQL statements – including accessing the XMLType data – to answer the following queries:

- a. Get the names and street addresses of customers who have NOT placed orders.
- b. Get the numbers and names of customers who have ordered part 10506.
- c. Get the numbers and names of customers who have ordered parts from an employee from Wichita.
- d. Get the numbers and names of customers who have ordered only from employees from Wichita.
- e. Get the numbers and names of employees who have not taken any orders.

Deliverables:

Printout of your code for both parts of the assignment (a .java file for problem 1 and a .sql file for problem 2).

Printout of output of both parts (the INSERT statements for problem 1, and the SQL output for problem 2).

Submit the code files (.java and .sql, respectively) for both problems to the Blackboard Assignment location.

Assignment is due at start of class on Wednesday, April 18. If you do the assignment with a partner, you should only provide a single printout and make a single code submission for the two partners. (redundant submissions will result in loss of points). You should also make sure that **both** partners' names are on all submissions.