Lab Activity

Complete the following SQL exercises using the JustLee Books database. Launch Oracle APEX, type in your statement, and execute it. Code and execute each exercise separately. Save both your statement and the results to a Word document. After all exercises have been completed, submit the Word document to the appropriate location.

1. In a script, create a PL/SQL procedure named PROC_GET_SINGLE_BOOK that takes an ISBN as input and retrieves and displays the book's Title, Cost and Retail columns from the Book table. Add an additional column called Price_Difference that is calculated from Retail – Cost. This procedure should only return a single row. Also add error handling to display a message if the ISBN is not found. Be sure to label each column in your display. For variable data types use the %TYPE feature with the corresponding column. Run this script to create the procedure object.
2. Execute the procedure from exercise 1 using ISBN 0401140733. Also try an ISBN that doesn't exist.
3. In a script, create a PL/SQL procedure named PROC_GET_ORDERS_BY_STATE that takes a state as input and retrieves and displays the Order#, OrderDate and ShipCity columns for that particular state. Since this procedure may retrieve more than one row, a cursor must be used. The script should be case-insensitive to the input state. Be sure to label each column in your display. For variable data types use the %TYPE feature with the corresponding column. Run this script to create the procedure object.
4. Execute the procedure from exercise 3 to retrieve all Florida orders. Also try an invalid state.
5. First, in your Object Browser, copy the BOOKS table to a new table called BOOKS_COPY. Then, in a script, create a PL/SQL procedure named PROC_INCREASE_BOOK_PRICE that takes a decimal percentage and category as input and increases the Cost and Retail columns by that percentage for all books in that category (using your BOOKS_COPY table). For example, if .02 was the input percentage, and the current cost of a book is 10.00, then the updated price would be 10.20. For variable data types use the %TYPE feature with the corresponding column (refer to DISCOUNT column for the input percentage data type). Run this script to create the procedure object.
6. Execute the procedure from exercise 5 to increase books in the computer category by 5%.