

Assignment 2 PL/SQL Packages

Objectives

- Setup databases in SQL
- Create PL/SQL Packages
- Use packages in PL/SQL code

Instructions

Follow the instructions below to create an SQL file called assignment2.sql. This file should be run on PDBORA19C. Ensure that your file runs from start to finish without error and displays the correct output.

Part 1 Setup JUSTLEE Database

For this assignment, you will need to setup the JUSTLEE database in PDBORA19C. Use the JLDDB_BUILD.sql file found on Moodle to create the JUSTLEE database in PDBORA19C. Ensure you can see all the tables related to JUSTLEE. Here is a diagram of the database itself:

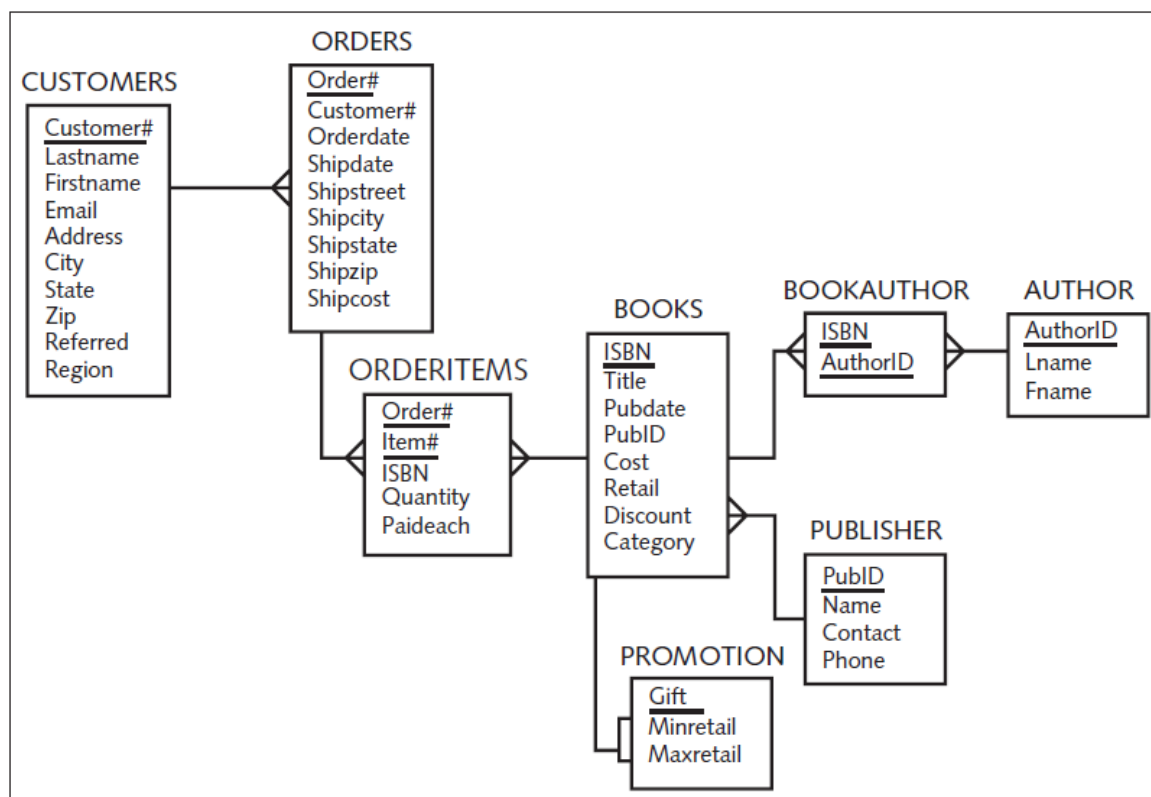


Figure 1 JUSTLEE Database ERD. Note, this ERD is flawed and should not be used as a reference for correctly drawing ERDs

Part 2 Creating Packages

Create a package called `book_store`. This package should have both a specification and a body. The package will contain the following functions:

- An internal function called `price_after_discount(book_isbn)`, which takes in the isbn of a book and returns the price of the book after the discount has been applied. Note, the discount field represents a dollar amount and should be subtracted from the retail field
- A public function called `get_price_after_tax(book_isbn)`, which takes in the isbn of a book and returns the final price of the book after a tax of 15% has been applied.

Part 3 Using packages

Create an anonymous PL/SQL block that prints the final price of the book 'BUILDING A CAR WITH TOOTHPICKS' and 'HOLY GRAIL OF ORACLE'.

Deliverable

Submit a file named `assignment2.sql` to Moodle. The sql file should run from start to finish without error and display the correct output. Ensure that any previously defined tables or types with the same name are dropped at the beginning of the script. For the due date see Moodle.

Resources

- Packages <https://docs.oracle.com/database/121/LNPLS/packages.htm#LNPLS99922>
- Subprograms <https://docs.oracle.com/database/121/LNPLS/subprograms.htm#LNPLS174>