Assignment-1 ITI-2180 Foundations of Data and Database Management

1. Be sure to run JLDB\_Build.sql in the ORCL2 database before starting this assignment.

Reminder: All JLDB\_Build.sql dates are 10 years newer than dates that appear in the textbook.

Chapter 2 Hands-on Assignment (problems A – J: see below) – 50 points

To determine the exact name of fields used in the tables for these exercises, refer to the tables in the JustLee Books database, or use the DESCRIBE tablename command to view the table’s structure.

Problem A : List the title and publication date for each book in the BOOKS table. Use the column heading “Publication Date” for the Pubdate field.

Problem B: List the customer number for each customer in the CUSTOMERS table, along with the city and state in which the customer lives.

Problem C: Create a list containing the publisher’s name, the person usually contacted, and the publisher’s telephone number. Rename the contact column “Contact Person” in the displayed results.

Problem D: Determine which categories are represented in the current book inventory. List each category only once.

Problem E: List the customer number from the ORDERS table for each customer who has placed an order with the bookstore. List each customer number only once.

Problem F: Create a list of each book title stored in the BOOKS table and the category in which each book belongs. Reverse the sequence of the columns so that the category of each book is listed first.

Problem G: Create a list of authors that displays the last name followed by the first name for each author. The last names and first names should be separated by a comma and a blank space.

Problem H: List all information for each order item. Include an item total, which can be calculated by multiplying the Quantity and Paideach columns. Use a column alias for the calculated value to show the heading “Item Total” in the output.

Problem I: The management of JustLee Books has submitted two requests. The first is for a mailing list of all customers stored in the CUSTOMERS table. The second is for a list of the percentage of profit generated by each book in the BOOKS table. The requests are as follows:

1 Create a mailing list from the CUSTOMERS table. The mailing list should display the name, address, city, state, and zip code for each customer. Each customer’s name should be listed in order of last name followed by first name, separated with a comma, and have the column header “Name.” The city and state should be listed as one column of output, with the values separated by a comma and the column header “Location.”

Problem J: The BOOKS table has COST column and a RETAIL column. The COST column is what JustLee pays for the book. The RETAIL column is the price for which JustLee sells the book. We are interested in calculating the percentage of profit. Suppose a book costs JustLee $50 which they in turn sell for $60. The profit % would be 20 (20 percent that is). Write a query that shows the ISBN, the TITLE, the COST, the RETAIL, and the PROFIT % for all books in the database. Label the calculated column PROFIT %

NOTE: You will find that SQL Developer truncates the column headers. To change this behavior:

SET SQLFORMAT ANSICONSOLE;

SET PAGESIZE 100;

You will issue this command once for each time you start SQL Developer. When you run this command, it sets the formatting for the whole SQL Developer session.