

Centennial College

COMP122, Winter 2023

Assignment 3

Due Date: Midnight of April 07, 2023 (Friday)

Purpose: The purpose of this assignment is to help you:

- Explains how to perform queries with search conditions and sorting methods
- How to use the WHERE clause of the SELECT statement as a search condition and the ORDER BY clause to display results in a specific sequence

Instructions: Be sure to read the following general instructions carefully:

Grading: This assignment should be completed individually by all the students. This assignment is worth 10% towards your final grade

Submission: Submit your solution **through the dropbox**, your submission should include sql command and the screenshot of command execution result, the submission must be named according to the following rule: **studentID (yourlastname)_Assignment#number.doc**. e.g., 300123456(smith)_Assignment#2.doc

INSTRUCTIONS:

To perform the following assignments run the JLDB_Build_8.sql script (You can find this script under WEEK 8 material).

This script removes your existing tables and creates a new set of tables.

Ignore any errors in the DROP TABLE statements at the beginning of the script. An “object does not exist” error indicates merely that the table wasn’t created in the schema previously.

Give the SQL statements and output for the following data requests:

Question 1 (5 marks)

1. Which customers live in New Jersey? List each customer’s last name, first name, and state.
2. Which orders shipped after April 1, 2009? List each order number and the date it shipped.
3. Which books aren’t in the Fitness category? List each book title and category.

4. Which customers live in Georgia or New Jersey? Put the results in ascending order by last name. List each customer's customer number, last name, and state. Write this query in two different ways.
5. Which orders were placed on or before April 1, 2009? List each order number and order date. Write this query in two different ways.
6. List all authors whose last name contains the letter pattern "IN." Put the results in order of last name, then first name. List each author's last name and first name.
7. List all customers who were referred to the bookstore by another customer. List each customer's last name and the number of the customer who made the referral.
8. Display the book title and category for all books in the Children and Cooking categories. Create three different queries to accomplish this task:
 - a) a search pattern operation,
 - b) a logical operator, and
 - c) another operator not used in a or b.
9. Use a search pattern to find any book title with "A" for the second letter and "N" for the fourth letter. List each book's ISBN and title. Sort the list by title in descending order.
10. List the title and publish date of any computer book published in 2005. Perform the task of searching for the publish date by using three different methods:
 - a) a range operator,
 - b) a logical operator, and
 - c) a search pattern operation.

Question 2 (5 marks)

Do Hands-on Exercise from Chapter 9 (page 344-345) . Write queries for all the questions 1-10 .

To perform these assignments, generate and test two SQL queries for each of the following task.

- The SQL statement needed to perform the stated task with traditional approach
- The SQL statement needed to perform the stated task with JOIN keyword
- Apply table aliases in all queries.