**Student Name: Weight: Contributes to 10% Engagement Mark**

**Student ID:** **Marks:** **Pass/Fail/Award**

# Group Exercise: Group Functions

## Equipment and Materials

For this lab, you will need:

* A Windows computer with a minimum of 16GB RAM and 250GB of free disk space, capable of nested virtualization
* Access to ORACLE SQL\*PLUS
* The following data provided on Brightspace:
  + JustLeeDatabase.zip

## Instructions

1. First, work through steps 2-4 individually. Then arrange a time to come together with your small group. As a group, create one solution based on the best individual solutions for each problem. Further refine the solution as a group as needed.
2. Review the JustLee Bookstore database and physical model.
3. Review the Problem Set, Tips for Success, and Marking Criteria sections of this document.
4. Write a single script that answers all the questions in the problem set.
5. Only one submission is required per group. The submission should include:
   1. One script file
   2. One spool file showing all results
   3. An attribution list that outlines the activities, time spent and resources associated with completing this assignment. An example attribution list is provided on Brightspace under Course Resources.

## Problem Set

1. List all authors and the total value of their book sales. Authors get a 1% commission based on the value of the sales. Sum the value of their total sales and their commissions in two columns. Carefully note the formatting of the resultant table. Sort by author first name and last name.

Eleven authors with corresponding total value of book sales and total commissions.

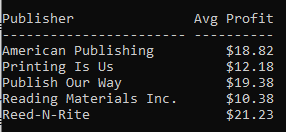

1. Show the total number of authors read by each customer. Only include customers who have read more than one author. Sort by last name and then first name.

Text

Description automatically generated

1. What is the average profit per book for each publisher? Carefully note the formatting of the resultant table.

Average profit per book = sum of retail prices – sum of the cost prices



## Tips for Success

1. You can use the following COLUMN commands.
   1. To limit the width of an alphanumeric column, use COLUMN "Title" FORMAT A20
   2. To limit the width of a numeric column and set its format, use COLUMN "Final $" FORMAT $99,990.00
   3. To clear out the column width settings after the query, use CLEAR COLUMNS
2. You may need to change the page width to avoid having the data wrap around when outputting (i.e. use **set linesize xxx** where xxx is the width).

## Marking Criteria

You must pass all categories to pass the activity.

|  |  |  |  |
| --- | --- | --- | --- |
| **Categories** | **Fail** | **Pass** | **Score** |
| Submission provided | No | Yes | **Pass/Fail** |
| Attribution list provided | No | Yes | **Pass/Fail** |
| Reasonable attempt to solve each question | No | Yes | **Pass/Fail** |
| Spool file with commands included | No | Yes | **Pass/Fail** |
| **Pass/Fail** | | | |