



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

WST 212 Practical 3 -Basic Queries

Instructions:

- Complete the questions which follow and save all your code in a single R script, named: Practical3.R ●

Submission : Code

- This is a fill-in assignment. Therefore, complete the whole practical before starting the Gradescope session.
- The Gradescope session is only 30 minutes, so complete the questions before you start a session.

Guidelines:

- The datasets required to complete the practical have been provided on ClickUP.
- A template with the packages necessary and how to import the files is on ClickUp as well.
- Save the excel files in the same folder as the R file you are doing the practical to simplify the importation process.
- Remember to assign your code to the variables indicated in this document.

Questions:

Answer the following questions based on the Orion database.

1. Consider the Orion database. Create a report that displays the number of employees residing in each city. Name this report q1.
2. Consider the Orion database. Create a report that includes each employee's age at time of employment. The report should contain the columns Employee_ID, Birth_Date, Employee_Hire_Date and Age. Name it q2.
3. Consider the Orion database. Using data contained in the customer table, create a report with the name q3, that shows the following statistics for each country:
 - a) total number of customers
 - b) total number of male customers
 - c) total number of female customers
 - d) Arrange the report by total number of customers so that the country with the highest value is listed first, with the remaining countries following in descending order.
4. Consider the Orion database. Use the customer table to determine the number of Orion customers of each gender in each country. Display columns named Country, Male Customers, and Female Customers. Display only those countries that have more female customers than male customers. Order the report by descending female customers. Name it q4.
5. Consider the Musico database. The marketing division at Musico would like a list of customers who reside in either Johannesburg or Pretoria and whose email address is in the yahoo domain. Write a SQL query that will provide the marketing division with the relevant information so that they can contact these customers. Make sure to alphabetize by the customers names. Name it q5.