Project-R-code.R

HP

2023-12-16

# Load the necessary libraries  
library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(DBI)  
library(RMySQL)  
  
# Create a connection to the MySQL database  
con <- dbConnect(RMySQL::MySQL(),   
 user = "student26",   
 password = "deputy",   
 dbname = "DBstudent26",   
 host = "dbcourse2023.cykbzjtad3ic.us-east-1.rds.amazonaws.com")  
  
POD = tbl(con, "Prj\_Orderdetails")  
PP = tbl(con, "Prj\_Products")  
PC= tbl(con, "Prj\_Categories")  
  
# Perform the inner joins and aggregation in the database  
  
dbExecute(con, "  
 CREATE TABLE Prj\_Result AS  
 SELECT PC.CategoryID, PC.CategoryName, SUM(POD.Quantity) AS TotalQuantityOrdered  
 FROM Prj\_Orderdetails POD  
 INNER JOIN Prj\_Products PP ON POD.ProductID = PP.ProductID  
 INNER JOIN Prj\_Categories PC ON PP.CategoryID = PC.CategoryID  
 GROUP BY PC.CategoryID, PC.CategoryName  
")

## [1] 5

# Print the result  
result <- dbGetQuery(con, "SELECT \* FROM Prj\_Result")

## Warning in dbSendQuery(conn, statement, ...): Decimal MySQL column 2 imported  
## as numeric

print(result)

## CategoryID CategoryName TotalQuantityOrdered  
## 1 C001 Electronics 3  
## 2 C002 Clothing 3  
## 3 C003 Books 5  
## 4 C004 Home and Kitchen 1  
## 5 C005 Toys and Games 4

# Close the database connection  
dbDisconnect(con)

## [1] TRUE