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#Shiny Dashboard
##Authors:
###Bryana Benson
###Conner Bryan

###Libraries
library(RMySQL)
library(shiny)
library(shinydashboard)
library(dygraphs)
#library(instalr)

###Dashobard Header
header <- dashboardHeader(title = 'Classic Models Revenue and Orders Dashboard')

###Dashobard Sidebar
sidebar <- dashboardSidebar()

###Month Dropdown
boxMonth <- box(selectInput("Month", label = "Month", choices = c("January" = 01, "February" =
02, "March" = 03, "April" = 04, "May" =
                                05, "June" = 06,
"July" = 07, "August" = 08, "September" = 09, "October" = 10, "November" = 11, "December" = 12),
selected = 04))
###Year Dropdown
boxYear <- box(selectInput("Year", label = "Year", choices = c(2003, 2004, 2005), selected =
2005))

###Row for Year and Month Dropdowns
row1 <- fluidRow(width=5, boxYear, boxMonth)

###Revenue Box
boxRev <- box(title = "Revenue", width = 6, background = "green", textOutput("Revenue"))

###Orders Box
boxOrd <- box(title = "Orders", width = 6, background = "blue", textOutput("Orders"))

###Row for Revenue and Orders Boxes
row2 <- fluidRow(width=5, boxRev, boxOrd)

###Combine Rows into Body
body <- dashboardBody(row1, row2)

###Combine dashboard components
ui <- dashboardPage(header, sidebar, body)

###Create Server
server <- function(input, output) {

  #connecting to server
  conn <- dbConnect(RMySQL::MySQL(), "www.richardtwatson.com", dbname="ClassicModels",
user="student", password="student")

  output$Revenue <- renderText({

    sql1 <- paste0('SELECT FORMAT(SUM(quantityOrdered*priceEach),2)
FROM Orders JOIN OrderDetails ON Orders.orderNumber =
OrderDetails.orderNumber
WHERE YEAR(orderDate) = ', input$Year, ' AND MONTH(orderDate)=', input$Month)

    query1 <- dbGetQuery(conn, sql1)[1,1])

    output$Orders <- renderText({

      sql2 <- paste0('SELECT COUNT(Orders.orderNumber) FROM Orders JOIN OrderDetails ON
Orders.orderNumber = OrderDetails.orderNumber WHERE YEAR(orderDate) = ', input$Year, ' AND
MONTH(orderDate)=', input$Month)

      query2 <- dbGetQuery(conn, sql2)[1,1])
    })
}

shinyApp(ui, server)

```

