

```
#Grace Ratliff and Qianting Zhao
#A14
```

```
library("RMySQL")
library("shinydashboard")
library("shiny")
library("dplyr")
```

```
#build the dashboard header and sidebar
header <- dashboardHeader(title = 'Classic Model Dashboard')
sidebar <- dashboardSidebar()
```

```
#creating dropdown option boxes for month and year
boxMonth <- box(selectInput("Month", label = "Choose a 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))
boxYear <- box(selectInput("Year", lebel = "Choose a Year", choices = c(2003, 2004, 2005), selected = 2005))
```

```
#store boxMonth and boxYear in row 1
row1 <- fluidRow(width=4,boxYear, boxMonth)
```

```
#create boxes for output of revenue and number of sales in April 2005
boxRevenue <- box(title = "Revenue for the month", width = 6, background = "green", textOutput("Revenue"))
boxQuant <- box(title = "Number of orders", width = 6, background = "blue", textOutput("Quant"))
```

```
#store Revenue and quantity boxes in row 2
row2 <- fluidRow(width = 4, boxRevenue, boxQuant)
```

```
#combining rows and components
body <- dashboardBody(row1, row2)
ui <- dashboardPage(header,sidebar,body)
```

```
server <- function(input, output)
{
  #connecting to server
  conn <-dbConnect(RMySQL::MySQL(), "www.richardtwatson.com", dbname="ClassicModels", user="student", password="student")
  #creating output values
  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$Month)
    query1 <- dbGetQuery(conn, sql1)[1,1]
  })
  output$Quant <- 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)
```