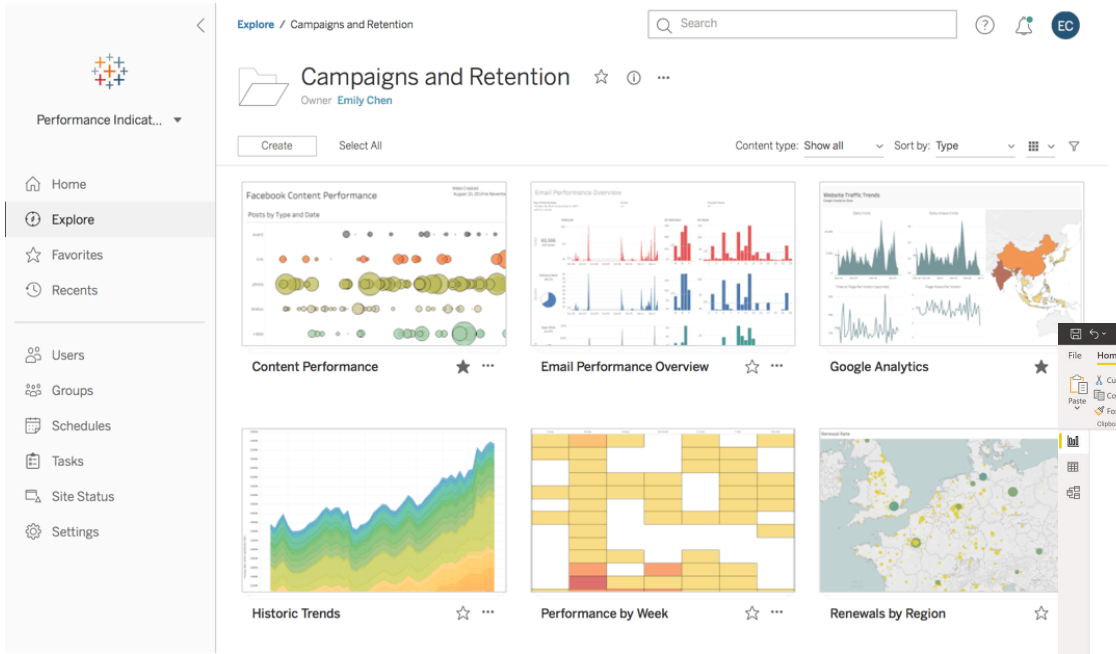
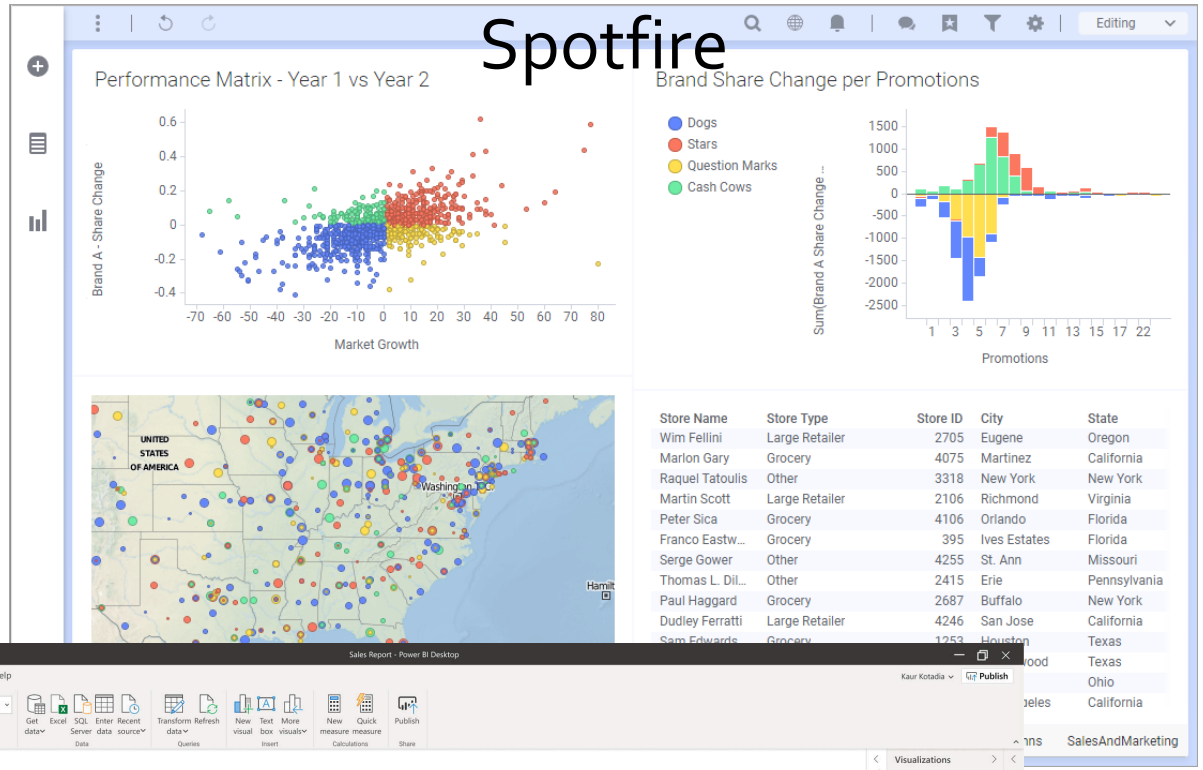
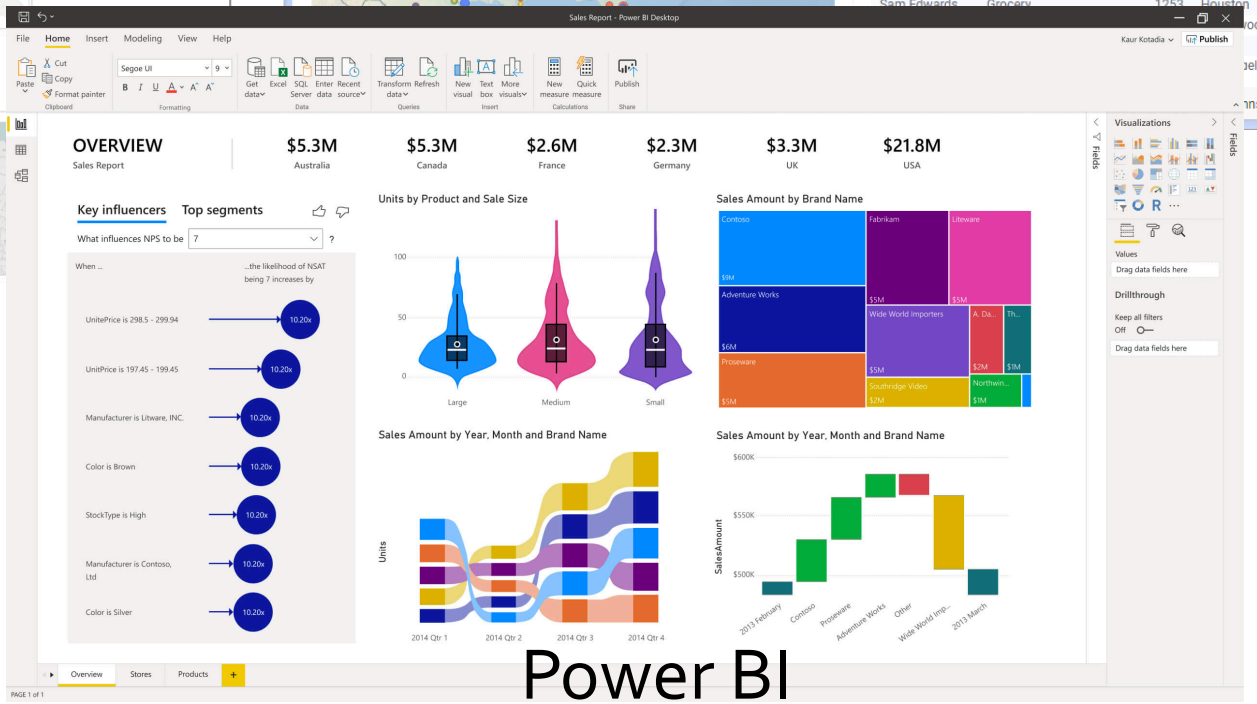
DATA DASHBOARDS



Tableau

Spotfire





Power BI

R SHINY

- https://shiny.rstudio.com/
- https://shiny.rstudio.com/gallery/
- https://shiny.rstudio.com/gallery/widget-gallery.html

OVERVIEW OF R SHINY FUNCTIONALITY

- Shiny runs a webpage, which is hosted (served) by a computer.
- When you run the app on your local machine:
  - The app webpage is not "live"
  - Your computer is the server
- When you run the app on a website:
  - The app webpage can be accessed by anyone who visits the site
  - A web server is the server

CREATING AN R SHINY APP

- In RStudio: File → New file → Shiny Web App
- Special formatting and folder structure:
  - The app must be called "app.R"
  - Any data files needed for the app should be stored in the same folder as the app

R SHINY APP ANATOMY

```
[setup stuff: load packages, data]

ui <- fluidPage()

server <- function(input, output) {}

shinyApp(ui = ui, server = server)
```

User interface: look and layout of the app

Server: instructions to build the app

R SHINY EXAMPLE FROM CLASS DATASET

https://katerisalk.shinyapps.io/PeterPaulApp_Full/

- Edit code in PeterPaulApp_Partial to look like the full app
- Consider the questions at the end of the app