Interactive plotting with Shiny app and plotly packages

0.1 Requirements for this lab

In this lab, you are required to use the skills learned from Module 9 to create a R Markdown which includes the interactive plotting using the packages “shiny” app and “plotly”.

- Please use the data provided to conduct a **Interactive plotting with Shiny app and plotly** based on the step mentioned below.

> Steps:
> 1. Install and load required packages.
> 2. Load and inspect the dataset.
> 3. Create .R file, not a RMD file. Shiny applications not supported in static R Markdown documents.
> 4. Create a shiny app in this R file.
> 5. Please create two interactive plot_ly objects. One is a plot_ly() obeject with selection of “State” and the second plot_ly() with selection of “Year”. You can check the example below, but please complete the codes required.

```
ui <- fluidPage(
selectInput(inputId = “inputstates”),
selectInput(inputId = “inputyears”),
plotlyOutput(outputId = “outstates”),
plotlyOutput(outputId = “outyears”)
)

server <- function(input, output, …) {
output$outstates <- renderPlotly({plot_ly()})
```

```
output$outyears <- renderPlotly({plot_ly()})
}
```

> 6. For the plot_ly() obecjt with selection of “State”, please create a line plot with years.
> 7. For the plot_ly() object with selection of “Year”, please create a histogram over all states.

0.2 Create plots

Select a state

Indiana

Select a year

2014