“POLICY PORTRAIT” DATABASE: WILL THERE EVER BE COMPROMISE?

BY : KARLA MARTINEZ

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- The central focus of this database is to dissect the opinions of diverse groups across different regions, delving into the perspectives on gun policy, specifically mass shootings. This database will include analysis based on surveys of individuals and aims to show the congruence of their opinions with those of the policy makers who represent them as well as the policies that embody their beliefs.

- The interface design will include a homepage showcasing the prevalence of mass shootings in different states, along with categories such as firearm regulation, background checks, and a filter by state ability. I will define vocabulary to introduce how data is being gathered in the different tabs. There will be a policy proposal page, with a proposal title, description, current status and voting options in support or opposition. Additionally, the page will highlight state-specific majority viewpoints and partisanship.

- A lot of the time individuals are not fully acquainted with an issue and go off information presented by their political representatives or environment.

- The aim of this database is to explore the correlation between partisanship and prevailing majority beliefs on these highly partisan ideals which could be taken to other issues to know if public opinions are correlated to policy change, or stick with partisanship , because surely there must be a compromise.

DATABASE

LOCATIONS IN THE U.S.

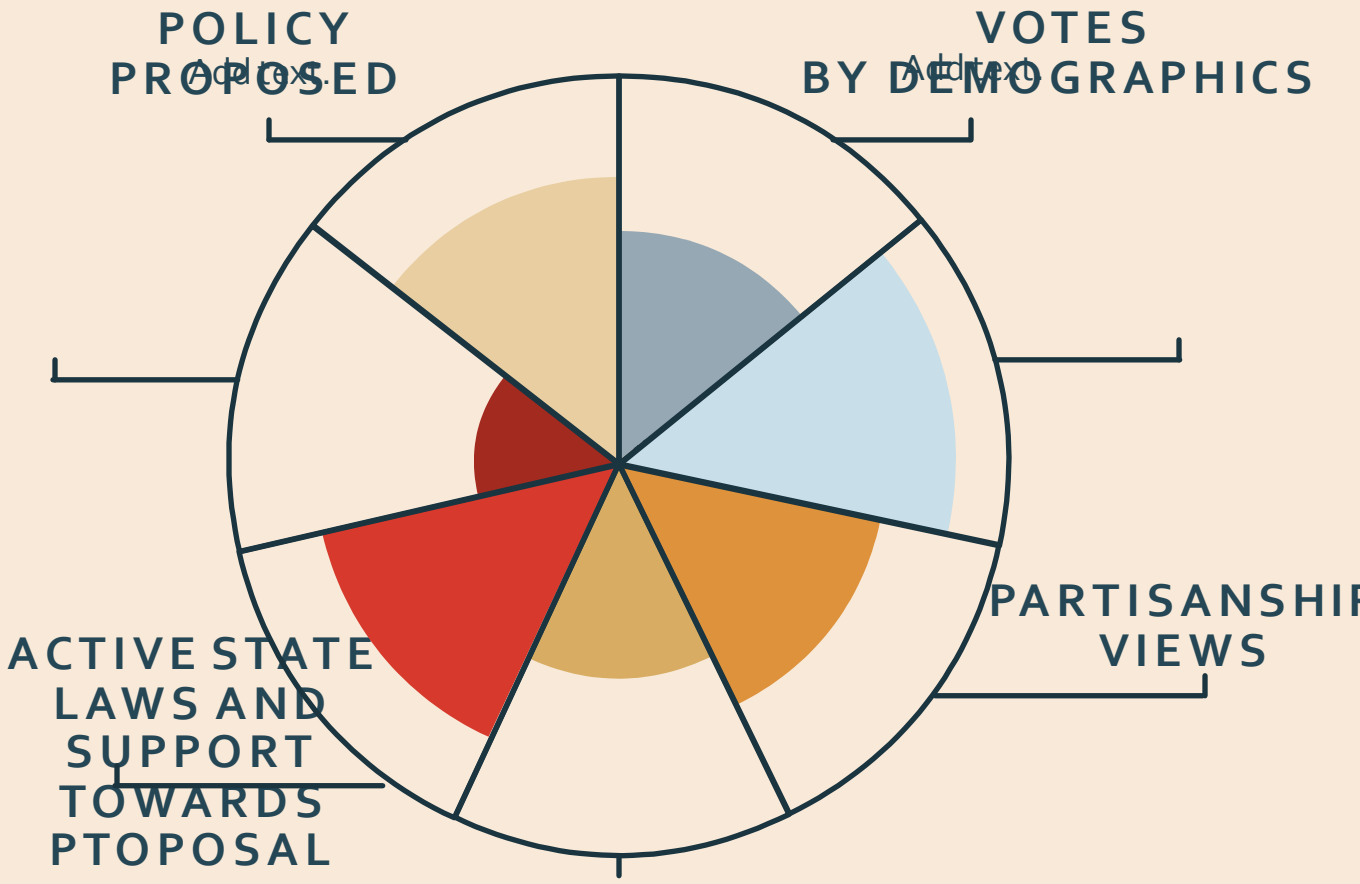
TEXAS, FLORIDA ,CALIFORNIA

FOCUS

DATA COLLECTION

Policies: background checks, high capacity magazines, ban on assault weapons and/or conceal carry.

- Data on Texas will be sourced from The Texas Politics Project At The University Of Texas At Austin and Public Opinion on Gun Control
- Data on Florida will be obtained from the University of North Florida -Public Opinion Research Lab (PORL) and GR Strategy Group .
- For California, data will be drawn from the University of California, Berkeley-Berkeley IGS Poll -Tabulations from a February 2023 Poll.



DATA COLLECTION

POLICY PROPOSAL TABLE

policy_ID	proposal name	policy description
BC	Background Checks	Supporting or Opposing requiring criminal and mental health background checks on all gun purchases in the United States, including at gun shows and for private sales.
HC	High Capacity Magazine Ban	High-Capacity magazines or clips can hold many rounds of ammunition, so a shooter can fire more rounds without manually reloading. Favor or Oppose a nationwide ban of the sale of high-n capacity magazines that hold many rounds of ammunition.
SA	Semi-Automatic Weapon Ban	Favor or Oppose a nationwide ban on semi-automatic weapons-inclusing someriifles, pistols, and shotguns- that have detachable magazines, allowing them to repidly fire a high number of rounds.
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DATA COLLECTION

VOTES BY DEMOGRAPHICS TABLE

policy_ID	state_ID	18-30	30-45	male	female	public_opinion	policy_stance
BC	CA	57%	55%	50%	63%	*additional comments in articles*	70%
HC	CA	57%	55%	50%	63%	*additional comments in articles*	60%
SA	CA	57%	55%	50%	63%	*additional comments in articles*	59%
BC	TX	57%	58%	47%	53%	*additional comments in articles*	61%
HC	TX	57%	58%	43%	57%	*additional comments in articles*	46%
SA	TX	57%	58%	34%	45%	*additional comments in articles*	40%
BC	FL	20%	12%	48%	54%	*additional comments in articles*	47%
HC	FL	20%	12%	48%	54%	*additional comments in articles*	30%
SA	FL	20%	12%	48%	54%	*additional comments in articles*	37%

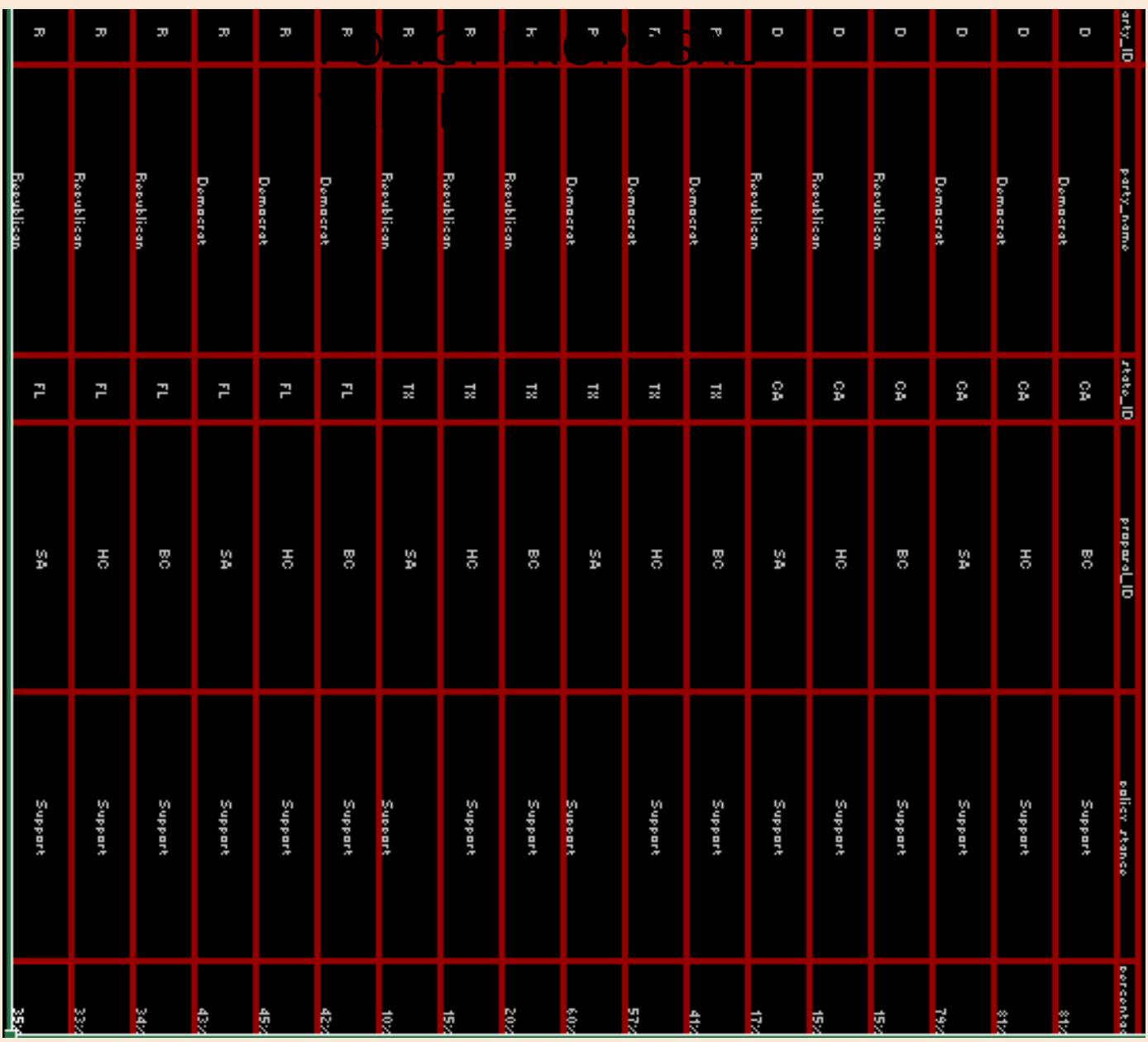
DATA COLLECTION

STATES TABLE

state_ID	state_name	number_casualties_py	active_policies	state_title	policy_streng
CA	California	3,253	"Background Check and/or Purchase Permit", "Concealed Carry Permit Required","Extreme Risk Law","No Shoot First Law," "Secure Storage or Child Access Prevention Required, "Assault Weapons Prohibite", "Consumer Safety," Ghost Guns Regulate", "High Capacity Magazines Prohibited", "Microstamping for New Handguns", ""No Special Immunity for Gun IndustryCrime Gun Tracing, "No Carry After Violent Offense","""No Guns Mandate on College Campuses,""No Guns at State Capitols and/or Demonstrations,"",No Guns in Bars"".No Guns in K-12 School,"",Open Carry Regulated"",Strong Concealed Carry Authority"",Emergency Restraining Order Prohibitor"".Felony Prohibito, "Fugitive from Justice Prohibitor,,"Gun Removal Program""", Hate Crime Prohibito"",Mental Health Prohibitor"",Minimum Age to Purchase"",No Gun Purchases After Violent Offense"",Prohibition for Convicted Domestic Abusers,"Prohibition for Domestic Abusers Under Restraining Orders","Relinquishment for Convicted Domestic Abusers","Relinquishment for Domestic Abusers Under Restraining Orders","Stalker Prohibitor","CaliforniaPolicing and civil rights","Funding for Services for Victims of Gun Violence","Local Gun Laws Allowed","Office of Violence Intervention","Police Use of Deadly Force Standard","Police Use of Force Incident Data Collection and Reporting","Requires law enforcement agencies to collect and report data on use of force incident","Violence Intervention Program Funding","Charleston Loophole Closed or Limited","Dealer License Required","Lost and Stolen Reporting","Mental Health Record Reporting","Notification of Failed Background Checks","Sales Records Sent to Law	Pen. Code, §§ 29800-29825, 29900; Welf. & Inst. Code, §§ 8100, 8103	85.9 (#1)
TX	Texas	3,996	"Secure Storage or Child Access Prevention Required" "No Carry After Violent Offense" "No Guns at State Capitols and/or Demonstrations" "No Guns in Bars" "Emergency Restraining Order Prohibitor" "Felony Prohibitor" "Prohibition for Convicted Domestic Abusers" "Prohibition for Domestic Abusers Under Restraining Orders" "School Threat Assessment Teams" "Stalker Prohibitor" "Violence Intervention Program Funding" "Mental Health Record Reporting"	Section 46.02 of the Texas Penal Code and Texas Penal Code, Chapter 46	13.5 (#32)
FL	Florida	2,989	"No Carry After Violent Offense" ,"Bars concealed carry by people with assault or other violent misdemeanor convictions", "No Guns Mandate on College Campuses", "No Guns at State Capitols and/or Demonstrations" ,"Blocks the public carry of guns on state capitol grounds and/or political protests" ,"No Guns in Bars" ,"Open Carry Regulated", "Felony Prohibitor", "Hate Crime Prohibitor" ,"Mental Health Prohibitor" ,"Minimum Age to Purchase", "Prohibition for Domestic Abusers Under Restraining Orders", "School Threat Assessment Teams", "Violence Intervention Program Funding", "Charleston Loophole Closed or Limited", "Mental Health Record Reporting", "Waiting Periods"	Title 18, United States Code 922(g)(1)-(9), (n)	27.5 /9#22)

DATA COLLECTION

PARTISANSHIP TABLE



DATABASE SCHEMA

policy_proposal (policy_id, proposal_name, state_id, policy_description) votes_table (policy_id, ,state_id, age_18, age_40, female, male, policy_stance)

states (state_id, state_name, casualties_py, active_policy, state_title)

partisanship (party_id,, party_name, state_id, proposal_ID, policy_stance, SupportPercent)

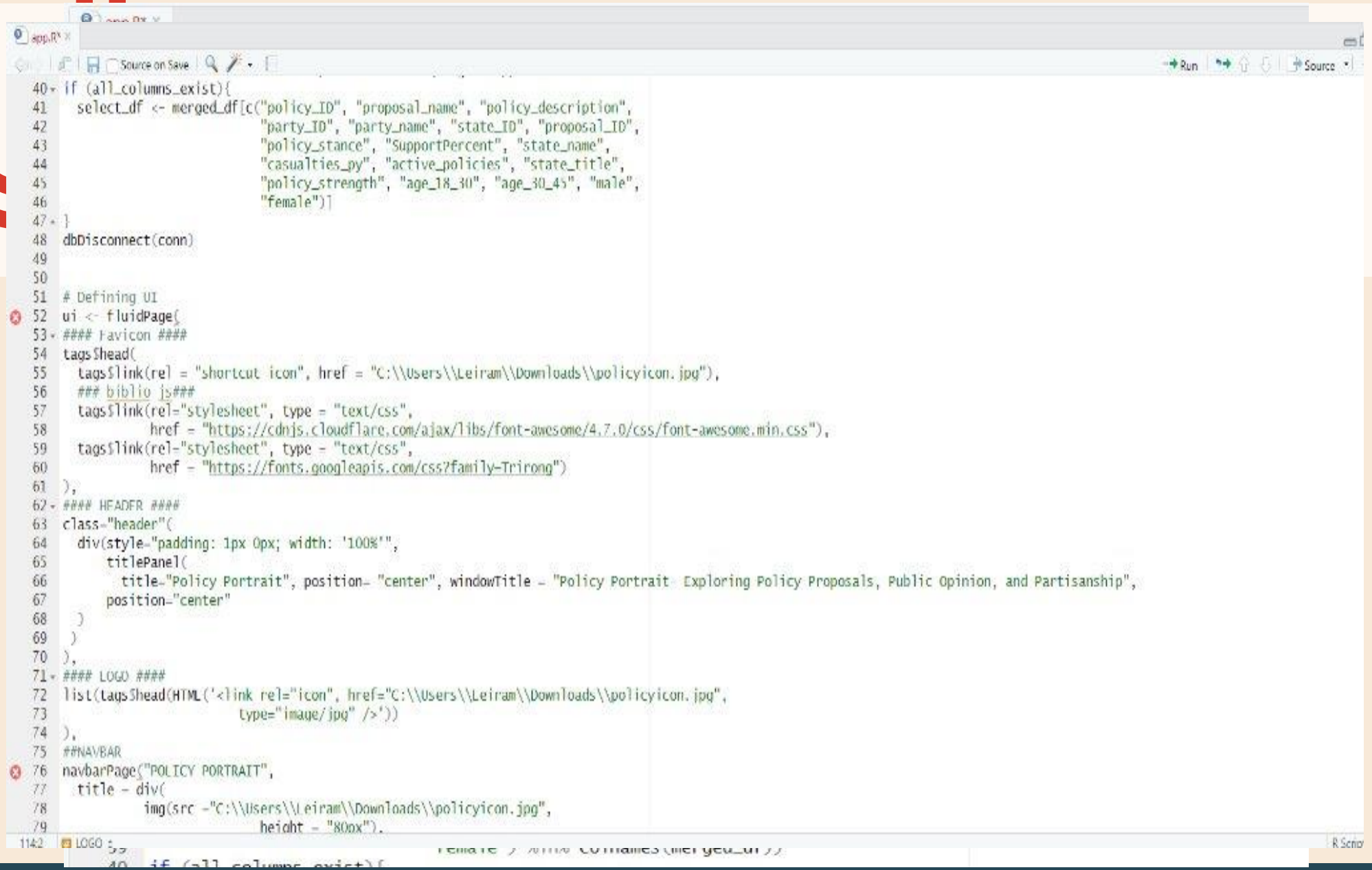
After defining different policy proposal, do individuals have similar views, where and why? Another Table? Challenging.


policy_proposal
policy_id (PK)
proposal_name
state_id (FK)
policy_description
votes_table
policy_id (FK)
state_id (FK)
age_18
age_40
female
male
policy_stance
states
state_id (PK)
state_name
casualties_py
active_policy
state_title
partisanship
party_id (PK)
party_name
state_id (FK)
proposal_ID
policy_stance
SupportPercent

app.R* ×

Source on Save

```r
library(shiny)
library(leaflet)
library(tidyr)
library(dplyr)
# Data Connection
db= 'PolicyPortrait'
db_host= '127.0.0.1'
db_port= 5433
db_user= 'postgres'
db_pass= 'KpmtZ8144122'

conn <- dbConnect(
  RPostgres::Postgres(),
  dbname=db,
  host=db_host,
  port=db_port,
  user=db_user,
  password= db_pass
)

dbListTables(conn)

policies_df <-dbGetQuery(conn, "SELECT * FROM policies")
partisanship_df <-dbGetQuery(conn, "SELECT * FROM partisanship")
states_df <-dbGetQuery(conn, "SELECT * FROM states")
votes_df <-dbGetQuery(conn, "SELECT * FROM votes")

#MERGING ALL DATAFRAMES
merged_df <- merge(policies_df, partisanship_df)
merged_df <- merge(merged_df, states_df)
merged_df <- merge(merged_df, votes_df)

print(colnames(merged_df))
all_columns_exist <- all(c("policy_ID", "proposal_name", "policy_description",
                           "party_ID", "party_name", "state_ID", "proposal_ID",
                           "policy_stance", "SupportPercent", "state_name",
                           "casualties_py", "active_policies", "state_title",
                           "policy_strength", "age_18_30", "age_30_45", "male",
                           "female") %in% colnames(merged_df))
if (all_columns_exist){
```


app.R
Source on Save
Run
Source
if (all_columns_exist){
select_df <- merged_df[c("policy_ID", "proposal_name", "policy_description",
"party_ID", "party_name", "state_ID", "proposal_ID",
"policy_stance", "SupportPercent", "state_name",
"casualties_py", "active_policies", "state_title",
"policy_strength", "age_18_30", "age_30_45", "male",
"female")]
}
dbDisconnect(conn)
# Defining UI
ui <- fluidPage(
Favicon
tags$head(
tags$link(rel = "shortcut icon", href = "C:\\Users\\Leiram\\Downloads\\policyicon.jpg"),
biblio js###
tags$link(rel="stylesheet", type = "text/css",
href = "https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"),
tags$link(rel="stylesheet", type = "text/css",
href = "https://fonts.googleapis.com/css?family=Trirong")
),
HEADER
class="header"(
div(style="padding: 1px 0px; width: '100%'",
titlePanel(
title="Policy Portrait", position= "center", windowTitle = "Policy Portrait Exploring Policy Proposals, Public Opinion, and Partisanship",
position="center"
)
)
),
LOGO
list(tags$head(HTML('<link rel="icon", href="C:\\Users\\Leiram\\Downloads\\policyicon.jpg",
type="image/jpg" />'))
),
##NAVBAR
navbarPage("POLICY PORTRAIT",
title = div(
img(src ="C:\\Users\\Leiram\\Downloads\\policyicon.jpg",
height = "80px"),
1142
LOGO

```
                        position= "fixed-top",
                        style = "padding-left:100px;"
),
          id = "navbar",
          selected = "home",
          theme = "styles.css",
          fluid = TRUE,
tabPanel("Home",icon=icon("home"),
         leafletOutput("map"),
         h3("Mass Shootings in the United States"),
         p("This interactive map shows the United States. Click on Texas, California, or Florida to view public opinion data specific to that state.")
),

# Different Policies
tabPanel("Policy Proposal",icon=icon("home"),
         h3("Policy Descriptions"),
         p("This interactive map shows the United States. Click on Texas, California, or Florida to view public opinion data specific to that state.")
),

# State-specific Laws Page
tabPanel("State Laws",
         fluidRow(
           column(4, selectInput("state", "Select State:",
                                 choices = c("Texas", "California", "Florida"))),
           column(8, dataTableOutput("active_policies"))
),
#PARTISANSHIP VIEWS
tabPanel("Partisanship", icon=icon("users"),
```

```
                    #PARTISANSHIP DATA
),
#DEMOGRAPHIC VOTES
tabPanel("Public Opinion/ Votes", icon=icon("quote-right"),
    ####
 )
)
#Defining Shiny Server
server <- function(input, output, session){
}
# Run the application
shinyApp(ui = ui, server = server)
```