

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



BY : KARLA MARTINEZ

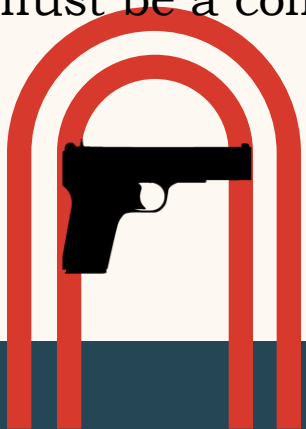
5/2/2024

- 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.

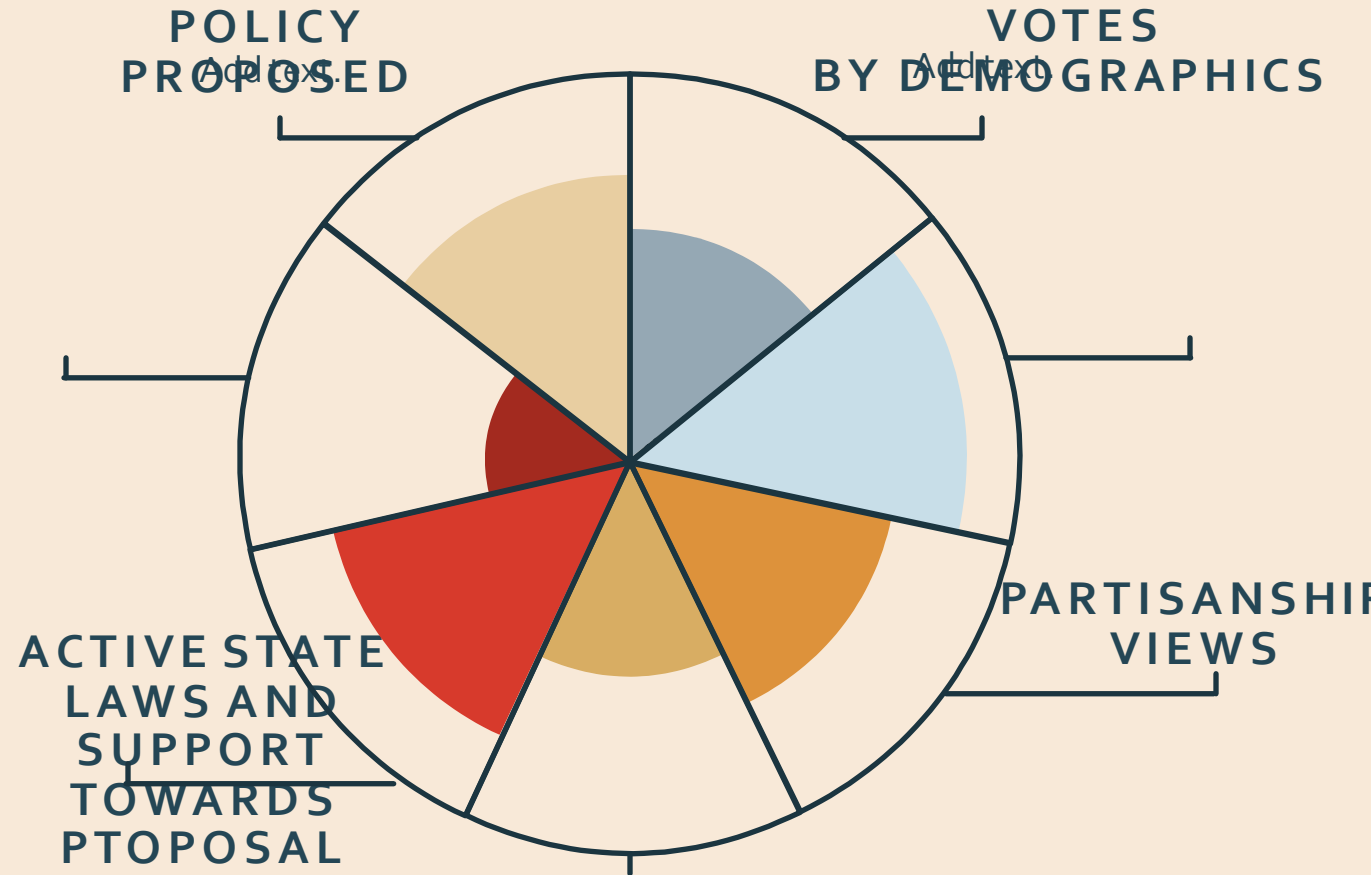
TEXAS, FLORIDA ,CALIFORNIA

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-including someriifles, pistols, and shotguns- that have detachable magazines, allowing them to repidly fire a high number of rounds.
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 holf many rounds of ammunition.
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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 holf many rounds of ammunition.
SA	Semi-Automatic Weapon Ban	Favor or Oppose a nationwide ban on semi-automatic weapons-including someriifles, pistols, and shotguns- that have detachable magazines, allowing them to repidly fire a high number of rounds.

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

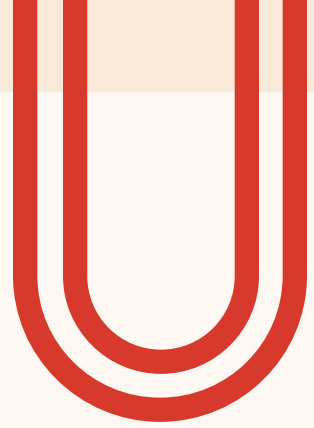
STATES TABLE

state_ID	state_name	number_casualties_py	active_policies	state_title	policy_strength
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 Industry", "Crime 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", "California Policing 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

party_ID	party_name	state_ID	proposal_ID	policy_stance	percentage
D	Democrat	CA	BC	Support	81%
D	Democrat	CA	HC	Support	81%
D	Democrat	CA	SA	Support	79%
D	Republican	CA	BC	Support	15%
D	Republican	CA	HC	Support	15%
D	Republican	CA	SA	Support	17%
P	Democrat	TX	BC	Support	41%
R	Democrat	TX	HC	Support	57%
P	Democrat	TX	SA	Support	60%
R	Republican	TX	BC	Support	20%
R	Republican	TX	HC	Support	15%
R	Republican	TX	SA	Support	10%
R	Democrat	FL	BC	Support	42%
R	Democrat	FL	HC	Support	45%
R	Democrat	FL	SA	Support	43%
R	Republican	FL	BC	Support	34%
R	Republican	FL	HC	Support	33%
R	Republican	FL	SA	Support	35%



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 policyproposal, do individuals have similar views, where and why? Another Table? Challenging.

```

+-----+
| policy_proposal |
+-----+
| policy_id (FK) |
| proposal_name |
| state_id (FK) | <-----
| policy_description |
|
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+-----+

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v

+-----+
| states |
+-----+
| state_id (FK) | <-----
| state_name |
| casualties_py |
| active_policy |
| state_title |
+-----+

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|
v

+-----+
| partisanship |
+-----+
| party_id (FK) |
| party_name |
| state_id (FK) |
| proposal_ID |
| policy_stance |
| SupportPercent |
+-----+

```

```
app.R* x
Source on Save
1 library(shiny)
2 library(leaflet)
3 library(tidyr)
4 library(dplyr)
5 # Data Connection
6 db= 'PolicyPortrait'
7 db_host= '127.0.0.1'
8 db_port= 5433
9 db_user= 'postgres'
10 db_pass= 'KpmtZ8144122'
11
12 conn <- dbConnect(
13   RPostgres::Postgres(),
14   dbname=db,
15   host=db_host,
16   port=db_port,
17   user=db_user,
18   password= db_pass
19 )
20
21 dbListTables(conn)
22
23 policies_df <- dbGetQuery(conn, "SELECT * FROM policies")
24 partisanship_df <- dbGetQuery(conn, "SELECT * FROM partisanship")
25 states_df <- dbGetQuery(conn, "SELECT * FROM states")
26 votes_df <- dbGetQuery(conn, "SELECT * FROM votes")
27
28 #MERGING ALL DATAFRAMES
29 merged_df <- merge(policies_df, partisanship_df)
30 merged_df <- merge(merged_df, states_df)
31 merged_df <- merge(merged_df, votes_df)
32
33 print(colnames(merged_df))
34 all_columns_exist <- all(c("policy_ID", "proposal_name", "policy_description",
35   "party_ID", "party_name", "state_ID", "proposal_ID",
36   "policy_stance", "SupportPercent", "state_name",
37   "casualties_py", "active_policies", "state_title",
38   "policy_strength", "age_18_30", "age_30_45", "male",
39   "female") %in% colnames(merged_df))
40 if (all_columns_exist){
```

```
app.R x
Source on Save
Run
Source

40 if (all_columns_exist){
41   select_df <- merged_df[c("policy_ID", "proposal_name", "policy_description",
42     "party_ID", "party_name", "state_ID", "proposal_ID",
43     "policy_stance", "SupportPercent", "state_name",
44     "casualties_py", "active_policies", "state_title",
45     "policy_strength", "age_18_30", "age_30_45", "male",
46     "female")]
47 }
48 dbDisconnect(conn)
49
50
51 # Defining UI
52 ui <- fluidPage(
53   #### Favicon ####
54   tags$head(
55     tags$link(rel = "shortcut icon", href = "C:\\Users\\Leiram\\Downloads\\policyicon.jpg"),
56     ## biblio js ##
57     tags$link(rel="stylesheet", type = "text/css",
58       href = "https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"),
59     tags$link(rel="stylesheet", type = "text/css",
60       href = "https://fonts.googleapis.com/css?family=Trirong")
61   ),
62   #### HEADER ####
63   class="header"(
64     div(style="padding: 1px 0px; width: '100%",
65       titlePanel(
66         title="Policy Portrait", position="center", windowTitle = "Policy Portrait: Exploring Policy Proposals, Public Opinion, and Partisanship",
67         position="center"
68       )
69     )
70   ),
71   #### LOGO ####
72   list(tags$head(HTML('<link rel="icon", href="C:\\Users\\Leiram\\Downloads\\policyicon.jpg",
73     type="image/jpeg" />'))
74   ),
75   ##NAVBAR
76   navbarPage("POLICY PORTRAIT",
77     title = div(
78       img(src = "C:\\Users\\Leiram\\Downloads\\policyicon.jpg",
79         height = "80px"),
80     )
81   )
82 )
83
84 # Server
85 server <- function(input, output, session) {
86   # Database connection
87   conn <- dbConnect(RSQLite::SQLite(), "data.sqlite")
88   # Query the database
89   merged_df <- dbGetQuery(conn, "SELECT * FROM merged_df")
90   # Check if all columns exist
91   if (all_columns_exist){
92     # Data manipulation
93     select_df <- merged_df[c("policy_ID", "proposal_name", "policy_description",
94       "party_ID", "party_name", "state_ID", "proposal_ID",
95       "policy_stance", "SupportPercent", "state_name",
96       "casualties_py", "active_policies", "state_title",
97       "policy_strength", "age_18_30", "age_30_45", "male",
98       "female")]
99   }
100   # Disconnect from database
101   dbDisconnect(conn)
102
103   # UI
104   ui <- fluidPage(
105     #### Favicon ####
106     tags$head(
107       tags$link(rel = "shortcut icon", href = "C:\\Users\\Leiram\\Downloads\\policyicon.jpg"),
108       ## biblio js ##
109       tags$link(rel="stylesheet", type = "text/css",
110         href = "https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"),
111       tags$link(rel="stylesheet", type = "text/css",
112         href = "https://fonts.googleapis.com/css?family=Trirong")
113     ),
114     #### HEADER ####
115     class="header"(
116       div(style="padding: 1px 0px; width: '100%",
117         titlePanel(
118           title="Policy Portrait", position="center", windowTitle = "Policy Portrait: Exploring Policy Proposals, Public Opinion, and Partisanship",
119           position="center"
120         )
121       )
122     ),
123     #### LOGO ####
124     list(tags$head(HTML('<link rel="icon", href="C:\\Users\\Leiram\\Downloads\\policyicon.jpg",
125       type="image/jpeg" />'))
126     ),
127     ##NAVBAR
128     navbarPage("POLICY PORTRAIT",
129       title = div(
130         img(src = "C:\\Users\\Leiram\\Downloads\\policyicon.jpg",
131           height = "80px"),
132       )
133     )
134   )
135
136   # Data manipulation
137   if (all_columns_exist){
138     select_df <- merged_df[c("policy_ID", "proposal_name", "policy_description",
139       "party_ID", "party_name", "state_ID", "proposal_ID",
140       "policy_stance", "SupportPercent", "state_name",
141       "casualties_py", "active_policies", "state_title",
142       "policy_strength", "age_18_30", "age_30_45", "male",
143       "female")]
144   }
145
146   # Output
147   output$policy_strength <- renderText(select_df$policy_strength)
148   output$age_18_30 <- renderText(select_df$age_18_30)
149   output$age_30_45 <- renderText(select_df$age_30_45)
150   output$male <- renderText(select_df$male)
151   output$female <- renderText(select_df$female)
152
153   # Active policies
154   output$active_policies <- renderText(select_df$active_policies)
155
156   # Casualties
157   output$casualties_py <- renderText(select_df$casualties_py)
158
159   # State name
160   output$state_name <- renderText(select_df$state_name)
161
162   # Policy stance
163   output$policy_stance <- renderText(select_df$policy_stance)
164
165   # Support percent
166   output$SupportPercent <- renderText(select_df$SupportPercent)
167
168   # State title
169   output$state_title <- renderText(select_df$state_title)
170
171   # Proposal ID
172   output$proposal_ID <- renderText(select_df$proposal_ID)
173
174   # Party name
175   output$party_name <- renderText(select_df$party_name)
176
177   # Policy ID
178   output$policy_ID <- renderText(select_df$policy_ID)
179
180   # Description
181   output$policy_description <- renderText(select_df$policy_description)
182
183   # Proposal name
184   output$proposal_name <- renderText(select_df$proposal_name)
185
186   # Party ID
187   output$party_ID <- renderText(select_df$party_ID)
188
189   # State ID
190   output$state_ID <- renderText(select_df$state_ID)
191
192   # Policy strength
193   output$policy_strength <- renderText(select_df$policy_strength)
194
195   # Age 18-30
196   output$age_18_30 <- renderText(select_df$age_18_30)
197
198   # Age 30-45
199   output$age_30_45 <- renderText(select_df$age_30_45)
200
201   # Male
202   output$male <- renderText(select_df$male)
203
204   # Female
205   output$female <- renderText(select_df$female)
206
207   # Active policies
208   output$active_policies <- renderText(select_df$active_policies)
209
210   # Casualties
211   output$casualties_py <- renderText(select_df$casualties_py)
212
213   # State name
214   output$state_name <- renderText(select_df$state_name)
215
216   # Policy stance
217   output$policy_stance <- renderText(select_df$policy_stance)
218
219   # Support percent
220   output$SupportPercent <- renderText(select_df$SupportPercent)
221
222   # State title
223   output$state_title <- renderText(select_df$state_title)
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225   # Proposal ID
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245
246   # Policy strength
247   output$policy_strength <- renderText(select_df$policy_strength)
248
249   # Age 18-30
250   output$age_18_30 <- renderText(select_df$age_18_30)
251
252   # Age 30-45
253   output$age_30_45 <- renderText(select_df$age_30_45)
254
255   # Male
256   output$male <- renderText(select_df$male)
257
258   # Female
259   output$female <- renderText(select_df$female)
260
261   # Active policies
262   output$active_policies <- renderText(select_df$active_policies)
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264   # Casualties
265   output$casualties_py <- renderText(select_df$casualties_py)
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269
270   # Policy stance
271   output$policy_stance <- renderText(select_df$policy_stance)
272
273   # Support percent
274   output$SupportPercent <- renderText(select_df$SupportPercent)
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276   # State title
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279   # Proposal ID
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302
303   # Age 18-30
304   output$age_18_30 <- renderText(select_df$age_18_30)
305
306   # Age 30-45
307   output$age_30_45 <- renderText(select_df$age_30_45)
308
309   # Male
310   output$male <- renderText(select_df$male)
311
312   # Female
313   output$female <- renderText(select_df$female)
314
315   # Active policies
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326
327   # Support percent
328   output$SupportPercent <- renderText(select_df$SupportPercent)
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330   # State title
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333   # Proposal ID
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359
360   # Age 30-45
361   output$age_30_45 <- renderText(select_df$age_30_45)
362
363   # Male
364   output$male <- renderText(select_df$male)
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366   # Female
367   output$female <- renderText(select_df$female)
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413
414   # Age 30-45
415   output$age_30_45 <- renderText(select_df$age_30_45)
416
417   # Male
418   output$male <- renderText(select_df$male)
419
420   # Female
421   output$female <- renderText(select_df$female)
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435   # Support percent
436   output$SupportPercent <- renderText(select_df$SupportPercent)
437
438   # State title
439   output$state_title <- renderText(select_df$state_title)
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441   # Proposal ID
442   output$proposal_ID <- renderText(select_df$proposal_ID)
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444   # Party name
445   output$party_name <- renderText(select_df$party_name)
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447   # Policy ID
448   output$policy_ID <- renderText(select_df$policy_ID)
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450   # Description
451   output$policy_description <- renderText(select_df$policy_description)
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462   # Policy strength
463   output$policy_strength <- renderText(select_df$policy_strength)
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465   # Age 18-30
466   output$age_18_30 <- renderText(select_df$age_18_30)
467
468   # Age 30-45
469   output$age_30_45 <- renderText(select_df$age_30_45)
470
471   # Male
472   output$male <- renderText(select_df$male)
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474   # Female
475   output$female <- renderText(select_df$female)
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477   # Active policies
478   output$active_policies <- renderText(select_df$active_policies)
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481   output$casualties_py <- renderText(select_df$casualties_py)
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1008   # Age 30-45
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1104   # Party ID
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1107   # State ID
1108   output$state_ID <- renderText(select_df$state_ID)
1109
1110   #
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```

80         position = "fixed-top",
81         style = "padding-left:100px;"
82     ),
83     id = "navbar",
84     selected = "home",
85     theme = "styles.css",
86     fluid = TRUE,
87     tabPanel("Home", icon=icon("home"),
88       leafletOutput("map"),
89       h3("Mass Shootings in the United States"),
90       p("This interactive map shows the United States. Click on Texas, California, or Florida to view public opinion data specific to that state."),
91     ),
92
93     # Different Policies
94     tabPanel("Policy Proposal", icon=icon("home"),
95       h3("Policy Descriptions"),
96       p("This interactive map shows the United States. Click on Texas, California, or Florida to view public opinion data specific to that state."),
97     ),
98
99     # State-specific Laws Page
100    tabPanel("State Laws",
101      fluidRow(
102        column(4, selectInput("state", "Select State:",
103          choices = c("Texas", "California", "Florida"))),
104        column(8, dataTableOutput("active_policies"))
105      ),
106
107    #PARTISANSHIP VIEWS
108    tabPanel("Partisanship", icon=icon("users"),

```

```

108    #PARTISANSHIP DATA
109  ),
110  #DEMOGRAPHIC VOTES
111  tabPanel("Public Opinion/ Votes", icon=icon("quote-right"),
112    #####
113  )
114  )
115  #Defining Shiny Server
116  server <- function(input, output, session){
117  }
118  # Run the application
119  shinyApp(ui = ui, server = server)
120
121

```