Project proposal

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10/09/20

Section 1. Introduction

```
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------------------------------------------
## v tibble  3.0.3     v purrr   0.3.4
## v tidyr   1.1.1     v dplyr   1.0.1
## v readr   1.3.1     v forcats 0.5.0

## -- Conflicts -----------------------------------------------------------------------------------
## x lubridate::as.difftime() masks base::as.difftime()
## x lubridate::date()        masks base::date()
## x dplyr::filter()          masks stats::filter()
## x readr::guess_encoding()  masks rvest::guess_encoding()
## x lubridate::intersect()   masks base::intersect()
## x dplyr::lag()             masks stats::lag()
## x purrr::pluck()           masks rvest::pluck()
## x lubridate::setdiff()     masks base::setdiff()
## x lubridate::union()       masks base::union()
```

```
police <- read.csv("data/nc_durham_2020_04_01.csv")
```

Section 2. Data description

Section 3. Glimpse of data

```
glimpse(police)
```

```
## Rows: 326,024
## Columns: 29
## $ raw_row_number      <int> 1219541, 1221117, 1221124, 1221133, 1221146,...
## $ date                <chr> "2001-12-28", "2002-01-02", "2002-01-02", "2...
## $ time                <chr> NA, "04:00:00", NA, "19:50:00", "20:45:00", ...
## $ location            <chr> "Durham, Durham County", "Durham, Durham Cou...
## $ county_name         <chr> "Durham County", "Durham County", "Durham Co...
## $ subject_age         <int> 22, 28, 21, 28, 36, 68, 24, 30, 38, 56, 28, ...
## $ subject_race        <chr> "black", "hispanic", "black", "black", "blac...
## $ subject_sex         <chr> "female", "male", "male", "female", "female"...
## $ officer_id_hash     <chr> "5b9908c1a5", "0c140e68b5", "0c140e68b5", "4...
## $ department_name     <chr> "Durham Police Department", "Durham Police D...
## $ type                <chr> "vehicular", "vehicular", "vehicular", "vehi...
## $ arrest_made         <lgl> FALSE, FALSE, FALSE, FALSE, FALSE, FALSE, FA...
## $ citation_issued     <lgl> FALSE, TRUE, FALSE, TRUE, FALSE, FALSE, FALS...
```

```
## $ warning_issued        <lgl> TRUE, FALSE, TRUE, FALSE, TRUE, TRUE, FALSE,...
## $ outcome               <chr> "warning", "citation", "warning", "citation"...
## $ contraband_found      <lgl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
## $ contraband_drugs      <lgl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
## $ contraband_weapons    <lgl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
## $ frisk_performed       <lgl> FALSE, FALSE, FALSE, FALSE, FALSE, FALSE, FA...
## $ search_conducted      <lgl> FALSE, FALSE, FALSE, FALSE, FALSE, FALSE, FA...
## $ search_person         <lgl> FALSE, FALSE, FALSE, FALSE, FALSE, FALSE, FA...
## $ search_vehicle        <lgl> FALSE, FALSE, FALSE, FALSE, FALSE, FALSE, FA...
## $ search_basis          <chr> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
## $ reason_for_frisk      <chr> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
## $ reason_for_search     <chr> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
## $ reason_for_stop       <chr> "Investigation", "Stop Light/Sign Violation"...
## $ raw_Ethnicity         <chr> "N", "H", "N", "N", "N", "N", "H", "N", "N",...
## $ raw_Race              <chr> "B", "W", "B", "B", "B", "B", "B", "W", "B",...
## $ raw_action_description <chr> "Verbal Warning", "Citation Issued", "Verbal...
```