Wake County Food Inspections

02/22/2023

Wake County Restaurants and their Sanitation Scores

Objective

The aim of this Project is to help Wake County residents make informed decisions about where they eat by providing them with a list of restaurants with sanitation scores above 90 (excellent) and a list of restaurants with sanitation scores below 80 (unacceptable). This will be done by exploring two data sets that Wake County has made available to the public: the Restaurants in Wake County data set, and the Food Inspections data set. The list presented to Wake County citizens will include the names, addresses, and phone numbers of the aforementioned restaurants.

Restaurants

The table below contains information about all of the restaurants in Wake County. Each restaurant has a HSISID, which serves as a unique identifier. Other information contained in the table includes the restaurants' names, addresses, phone numbers, and the dates of their opening.

```
restaurants_file <- "Restaurants_in_Wake_County.csv"
Restaurants <- read_csv(restaurants_file)

## Rows: 3715 Columns: 15

## -- Column specification -------
## Delimiter: ","

## chr (11): HSISID, NAME, ADDRESS1, ADDRESS2, CITY, STATE, POSTALCODE, PHONENU...

## dbl (4): OBJECTID, PERMITID, X, Y

##

## i Use 'spec()' to retrieve the full column specification for this data.

## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.</pre>
```

```
Restaurants
```

```
## # A tibble: 3,715 x 15
##
      OBJECTID HSISID
                          NAME ADDRE~1 ADDRE~2 CITY
                                                       STATE POSTA~3 PHONE~4 RESTA~5
                                                 <chr> <chr> <chr>
##
                                         <chr>
         <dbl> <chr>
                          <chr> <chr>
                                                                      <chr>
       3140310 040920105~ 0'Ch~ 101 AS~ <NA>
                                                 CARY
                                                       NC
                                                              27511-~ (919) ~ 1991/0~
   1
      3140311 040920106~ Roas~ 7 S WE~ <NA>
                                                              27603-~ (919) ~ 1991/0~
##
                                                 RALE~ NC
##
       3140312 040920140~ Assa~ 7417 S~ <NA>
                                                 FUQU~ NC
                                                              27526
                                                                      (919) ~ 2004/0~
##
   4 3140313 040921101~ Sout~ 2600 R~ <NA>
                                                 RALE~ NC
                                                              27610-~ (919) ~ 1997/0~
   5 3140314 040920134~ Pine~ 3300 G~ <NA>
                                                 CLAY~ NC
                                                              27520-~ (919) ~ 2001/1~
##
       3140315 040920100~ AUBR~ 38 N M~ <NA>
##
   6
                                                 WEND~ NC
                                                              27591
                                                                      (919) ~ 1991/0~
      3140316 040920100~ Boja~ 1013 N~ <NA>
                                                              27601-~ (919) ~ 1991/0~
                                                 RALE~ NC
```

```
## 8 3140317 040920102~ Firs~ 99 N S~ <NA> RALE~ NC 27603~~ (919) ~ 1991/0~
## 9 3140318 040920108~ 42nd~ 508 W ~ <NA> RALE~ NC 27603~~ (919) ~ 1991/0~
## 10 3140319 040920102~ Fran~ 2030 N~ <NA> RALE~ NC 27610~~ (919) ~ 1991/0~
## # ... with 3,705 more rows, 5 more variables: FACILITYTYPE <chr>, ## # PERMITID <dbl>, X <dbl>, Y <dbl>, GEOCODESTATUS <chr>, and abbreviated variable names 1: ADDRESS1, 2: ADDRESS2, 3: POSTALCODE, 4: PHONENUMBER, ## # 5: RESTAURANTOPENDATE
```

Sanitation Scores

The table below contains the sanitation scores of all of the restaurants in Wake County. Each restaurant is identified by its HSISID, which serves as a key to access more information about the restaurant in the Restaurants data table.

```
inspections_file <- "Food_Inspections.csv"
Inspections <- read_csv(inspections_file)

## Rows: 54894 Columns: 8

## -- Column specification -------

## Delimiter: ","

## chr (5): HSISID, DATE_, DESCRIPTION, TYPE, INSPECTOR

## dbl (3): OBJECTID, SCORE, PERMITID

##

## i Use 'spec()' to retrieve the full column specification for this data.

## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.</pre>
```

Inspections

```
## # A tibble: 54,894 x 8
##
      OBJECTID HSISID
                           SCORE DATE
                                                      DESCR~1 TYPE INSPE~2 PERMI~3
##
         <dbl> <chr>
                           <dbl> <chr>
                                                      <chr>>
                                                              <chr> <chr>
                                                                              <dbl>
##
   1 39043897 04092017542 94.5 2017/04/07 04:00:00~ "Inspe~ Insp~ Anne-K~
                                                                              18439
                                 2017/11/08 05:00:00~ "manag~ Insp~ Laura ~
##
   2 39043898 04092017542 92
                                                                              18439
##
   3 39043899 04092017542 95
                                 2018/03/23 04:00:00~ <NA>
                                                              Insp~ Laura ~
                                                                              18439
   4 39043900 04092017542 93.5 2018/09/07 04:00:00~ "*NOTI~ Insp~ Laura ~
##
                                                                              18439
   5 39043901 04092017542 93
                                 2019/04/04 04:00:00~ "*NOTI~ Insp~ Joanne~
                                                                              18439
   6 39043902 04092017542 93.5 2019/10/07 04:00:00~ "Follo~ Insp~ Naterr~
##
                                                                              18439
   7 39043903 04092017542 92.5 2020/05/19 04:00:00~ "*NOTI~ Insp~ Naterr~
##
                                                                              18439
  8 39043904 04092017542 94
                                 2020/10/09 04:00:00~ "PIC c~ Insp~ Nicole~
                                                                              18439
                                 2021/03/24 04:00:00~ "PIC c~ Insp~ Nicole~
## 9 39043905 04092017542 94
                                                                              18439
## 10 39043906 04092017542 92
                                 2021/07/20 04:00:00~ "Bathr~ Insp~ David ~
                                                                              18439
## # ... with 54,884 more rows, and abbreviated variable names 1: DESCRIPTION,
      2: INSPECTOR, 3: PERMITID
```

IDs of Restaurants with Sanitation Scores Above 90

The algorithm below filters the Inspections table for the HSISIDs of all of the restaurants in Wake County that have sanitation scores above 90, and stores the result as a list.

```
ids_above_90 <- Inspections[Inspections$SCORE <= 90, "HSISID"]
ids_above_90 <- as.list(ids_above_90$HSISID)</pre>
```

IDs of Restaurants with Sanitation Scores Below 80

The algorithm below filters the Inspections table for the HSISIDs of all of the restaurants in Wake County that have sanitation scores below 80, and stores the result as a list.

```
ids_below_80 <- Inspections[Inspections$SCORE <= 80, "HSISID"]
ids_below_80 <- as.list(ids_below_80$HSISID)</pre>
```

Restaurants with Sanitation Scores Above 90

The Restaurants table is filtered for names, addresses, and phone numbers of the restaurants in Wake County that have sanitation scores above 90.

```
## # A tibble: 643 x 6
                                                       CITY STATE POSTA~1 PHONE~2
##
     NAME
                                   ADDRESS1
##
      <chr>
                                   <chr>
                                                       <chr> <chr> <chr>
                                                                           <chr>>
   1 O'Charleys
                                                                   27511-~ (919) ~
##
                                   101 ASHVILLE AVE
                                                       CARY NC
  2 Roast Grill
                                   7 S WEST ST
                                                       RALE~ NC
                                                                   27603-~ (919) ~
## 3 Torero's Mexican Restaurant V 1207-C Kildaire Fa~ CARY NC
                                                                   27511
                                                                           (919) ~
## 4 Han-Dee Hugo's #47
                                   4120 GLENWOOD AVE
                                                       RALE~ NC
                                                                   27612-~ (919) ~
## 5 China Chef
                                   930 US 64 HWY W
                                                       APEX NC
                                                                   27523
                                                                           (919) ~
## 6 Los Tres Magueyes
                                                       CARY NC
                                                                   27511-~ (919) ~
                                   110 SW MAYNARD RD
## 7 Parkside
                                   301 W MARTIN ST
                                                       RALE~ NC
                                                                   27601-~ (984) ~
## 8 Barrys Cafe
                                   2851 Jones Frankli~ RALE~ NC
                                                                   27606-~ (919) ~
## 9 BOJANGLES #15
                                   5409 CAPITAL BLVD RALE~ NC
                                                                   27616-~ (919) ~
## 10 NC Farm Bureau Cafeteria
                                   5301 GLENWOOD AVE
                                                       RALE~ NC
                                                                   27612-~ (919) ~
## # ... with 633 more rows, and abbreviated variable names 1: POSTALCODE,
     2: PHONENUMBER
```

Restaurants with Sanitation Scores Below 80

The Restaurants table is filtered for names, addresses, and phone numbers of the restaurants in Wake County that have sanitation scores below 80.

```
## # A tibble: 47 x 6
## NAME ADDRESS1 CITY STATE POSTA~1 PHONE~2
```

```
<chr>
                                                   <chr> <chr> <chr>
##
## 1 Middle Creek Park
                                     151 Middle Cre~ APEX NC
                                                                27502
                                                                       (919) ~
## 2 Wang's Kitchen
                                     3416 POOLE RD RALE~ NC
                                                                27610-~ (919) ~
## 3 AMF South Hills Snack Bar
                                 301 NOTTINGHAM~ CARY NC
                                                                27511-~ (919) ~
## 4 Moore Square Magnet Middle School 301 S PERSON ST RALE~ NC
                                                                27601-~ (919) ~
## 5 Holly Ridge Middle Sch. Cafeteria 950 HOLLY SPRI~ HOLL~ NC
                                                                27540-~ (919) ~
## 6 China King
                                     1861 Aversboro~ GARN~ NC
                                                                27529 (919) ~
## 7 Chinatown Express
                                     5800 Duraleigh~ RALE~ NC
                                                                       <NA>
                                                                27612
## 8 Turner Creek Elementary Cafeteria 6801 Turner Cr~ CARY NC
                                                                27519
                                                                       (919) ~
                                                                27606
                                                                       (919) ~
## 9 HONG KONG CHINESE KITCHEN 5563 WESTERN ~ RALE~ NC
## 10 Willow Creek Exxon
                                    1133 OLD HONEY~ FUQU~ NC
                                                                27526-~ (919) ~
## # ... with 37 more rows, and abbreviated variable names 1: POSTALCODE,
## # 2: PHONENUMBER
```