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Aim: : Understanding and learning SAS Studio

Introduction:

BE IT (DA LAB)

SAS Studio a web browser-based interface for SAS programmers that also suits the

needs of novice users by providing an assistive framework. SAS Studio lets you work

with the same SAS server from your desk, your laptop at home or wherever you have a

browser and a connection.

Using SAS we can access data files, libraries and existing programs – or write new ones

– with this developmental web application accessible through your browser. With SAS

Studio, we can use predefined tasks to generate SAS code. When we run a program or

task, the technology processes the SAS code on a SAS server, which can be a server in

a cloud environment, in your local environment, or SAS installed on our local machine.

After the code is processed, the results are returned to SAS Studio in your browser.

In addition to writing and running your own SAS programs, you can use the predefined

tasks that are included with SAS Studio to analyze your data. The tasks are based on

SAS procedures and provide access to some of the most commonly used graph and

analytical procedures. You can also use the default task template to write your own

tasks.

Implementation:

Data used

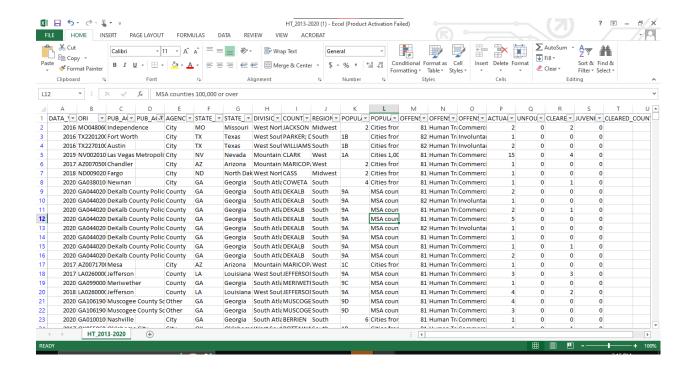
• File name: HT_2013-2020

• CSV file containing the state-wise Hate Crime (specifically Human

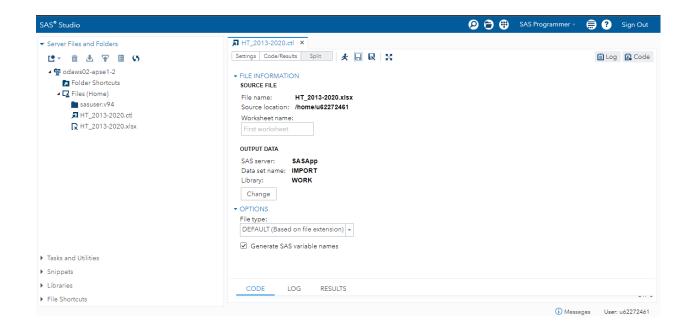
Trafficking) Statistics of USA from year 2013 to 2020

Other important parameters of the data are Sub-category, Total cases and

Fake cases



• Input file information



Import file

Code:

/* Generated Code (IMPORT) */

/* Source File: HT_2013-2020.xlsx */

/* Source Path: /home/u62272461 */

/* Code generated on: 11/3/22, 3:15 PM */

```
%web_drop_table(WORK.IMPORT1);

FILENAME REFFILE '/home/u62272461/HT_2013-2020.xlsx';

PROC IMPORT DATAFILE=REFFILE

DBMS=XLSX
OUT=WORK.IMPORT1;
GETNAMES=YES;

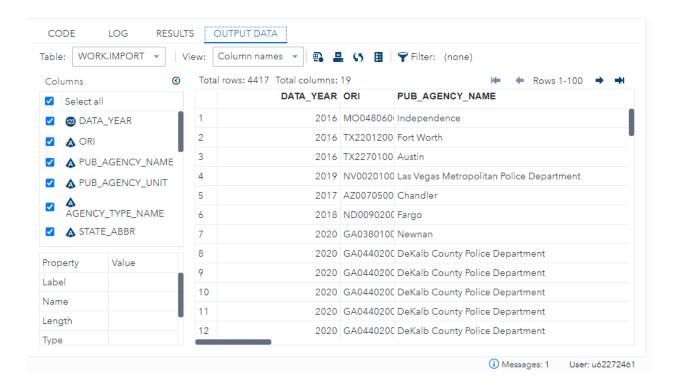
RUN;

PROC CONTENTS DATA=WORK.IMPORT1; RUN;
```

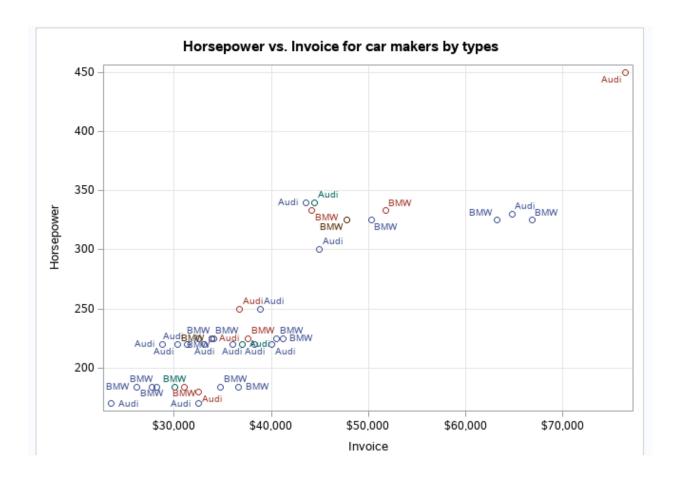
%web_open_table(WORK.IMPORT1);

```
CODE
           LOG
                    RESULTS
🕞 🗦 👢 📭
                Line # 😥 🕍 Edit
  1 /* Generated Code (IMPORT) */
  2 /* Source File: HT 2013-2020.xlsx */
  3 /* Source Path: /home/u62272461 */
  4 /* Code generated on: 11/3/22, 3:15 PM */
  6 %web_drop_table(WORK.IMPORT1);
  7
  8
  9 FILENAME REFFILE '/home/u62272461/HT_2013-2020.xlsx';
 10
11 PROC IMPORT DATAFILE=REFFILE
 12
        DBMS=XLSX
 13
        OUT=WORK.IMPORT1;
 14
        GETNAMES=YES;
 15 RUN;
 16
    PROC CONTENTS DATA=WORK.IMPORT1; RUN;
 17
 18
 19
 20 %web_open_table(WORK.IMPORT1);
```

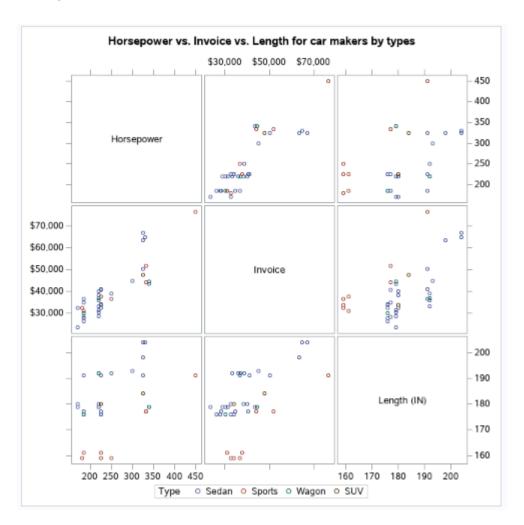
Result:



• Plotting scatter plot of horsepower vs make using the "CARS" dataset that is readily available in SAS Studio for implementation



• Plotting a scatter matrix



Code:

```
/* scatter plot */
PROC SQL;
create table CARS1 as
SELECT make, model, type, invoice, horsepower, length, weight
FROM
SASHELP.CARS
WHERE make in ('Audi','BMW')
;
RUN;

TITLE 'Scatterplot - Two Variables';
PROC sgscatter DATA = CARS1;
PLOT horsepower*Invoice
/ datalabel = make group = type grid;
title 'Horsepower vs. Invoice for car makers by types';
```

```
RUN;

/* scatter matrix */

PROC sgscatter DATA = CARS1;

matrix horsepower invoice length

/ group = type;

title 'Horsepower vs. Invoice vs. Length for car makers by types';

RUN;
```