

```
/*
```

```
Name: Yash Saraiya
```

```
*/
```

```
/*
```

```
1. Housekeeping
```

```
*/
```

```
TITLE;
```

```
FOOTNOTE;
```

```
ODS NOPROCTITLE;
```

```
RUN;
```

```
/*
```

```
2. Assign a libref to the mylib folder
```

```
*/
```

```
LIBNAME mylib "/folders/myfolders/STAT 604/Assignment 6";
```

```
DATA covid19;
```

```
    SET mylib.alltx;
```

```
    FILENAME output
```

```
        "/folders/myfolders/STAT 604/Assignment 6/YSaraiya_HW13_output.pdf";
```

```
RUN;
```

```
/*
```

```
3. Set the output pdf location
```

```
*/
```

```
ODS PDF FILE=output;
```

```
/*
```

```
4. Setup formats for months and categories
```

```
*/
```

```
PROC FORMAT LIBRARY=mylib;
```

```
    VALUE $months
```

```
        '01'='January'
```

```
        '02'='February'
```

```
        '03'='March'
```

```
        '04'='April'
```

```
        '05'='May'
```

```
        '06'='June'
```

```
        '07'='July'
```

```
        '08'='August'
```

```
        '09'='September'
```

```
        '10'='October'
```

```
        '11'='November'
```

```
        '12'='December';
```

```
    VALUE $col
```

```
        0='None'
```

```
        0<-<0.01='Low'
```

```
        0.01-<0.1='Medium'
```

```
        0.1-high='High'
```

```
        other='No Data';
```

```
RUN;
```

```
OPTIONS FMTSEARCH=(mylib.formats);
```

```
/*
```

5. Make changes to the dataset as asked

```
*/
```

```
DATA temp;
```

```
    SET mylib.alltx;
```

```
    DROP pct_fatal_cases Fatality_Group;
```

```
    RENAME
```

```
        PEOPLE_POSITIVE_CASES_COUNT=Total_Cases
```

```
        PEOPLE_DEATH_NEW_COUNT=New_Deaths
```

```
        PEOPLE_POSITIVE_NEW_CASES_COUNT=New_Cases
```

```
        PEOPLE_DEATH_COUNT=Total_Deaths;
```

```
    LABEL PEOPLE_POSITIVE_CASES_COUNT='Total Cases'
```

```
        PEOPLE_DEATH_NEW_COUNT='New Death'
```

```
        PEOPLE_POSITIVE_NEW_CASES_COUNT='New Cases'
```

```
        PEOPLE_DEATH_COUNT='Total Death'
```

```
        COUNTY_NAME='County'
```

```
        COUNTY_FIPS_NUMBER='FIPS';
```

```
    M_no=MONTH(REPORT_DATE);
```

```
    LABEL M_no='Month';
```

```
    FORMAT M_no $months.;
```

```
RUN;
```

```
/*
```

6. Creation of summaries of 2016 rows

```
*/
```

```
PROC SORT DATA = temp OUT = temp NODUPKEY;
```

```
    BY COUNTY_NAME M_no;
```

```
DATA summary(KEEP=COUNTY_FIPS_NUMBER COUNTY_NAME M_no MONTHLY_CASES  
    MONTHLY_DEATHS);
```

```
SET work.temp;
```

```
BY COUNTY_NAME M_no;
```

```
LABEL MONTHLY_CASES="MONTHLY CASES";
```

```
LABEL MONTHLY_DEATHS="MONTHLY DEATHS";
```

```
IF FIRST.COUNTY_NAME THEN
```

```
    DO;
```

```
        MONTHLY_CASES=New_Cases;
```

```
        MONTHLY_DEATHS=New_Deaths;
```

```
    END;
```

```
ELSE
```

```
    DO;
```

```
        MONTHLY_CASES=SUM(MONTHLY_CASES, NEW_CASES);
```

```
        MONTHLY_DEATHS=SUM(MONTHLY_DEATHS, NEW_DEATHS);
```

```
    END;
```

```
IF LAST.COUNTY_NAME THEN
```

```
    OUTPUT summary;
```

```
RUN;
```

```
PROC PRINT DATA=summary;
```

```
RUN;
```

```
/*
```

11. Close the PDF destination

*/

ODS PDF CLOSE;

ODS HTML PATH="%qsysfunc(pathname(work))";

ODS HTML CLOSE;

RUN;

/*

12 Questions:

a. What length is reported for the format of month names?

Two.

b. Describe how the comparison of monthly cases for Brazos and McLennan counties changes between June and July.?

65% and 56%

c. When did Bexar County report the first case? How many days later was the first death?

d. What observation(s) can be made about the counties with a High fatality rate?

*/