

MACRO SORTBY PROC SORT; BY %

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/******  
* JUDICIAL PRODUCTIVITY CREDITS *  
* JUSTICE COURTS BY COUNTY *  
* BASED ON TWO CALENDAR YEARS OF CASE FILING DATA *  
*****/
```

PROC SQL;

```
CREATE TABLE Y1Data AS  
SELECT Courtid, Count(*) AS Months_count, County, Month, YEAR4,  
SUM(F_TOTCC, TI_TOTCC, HEAR_JUV, F_PB, F_FUG, F_DV, F_HAR, -OFFSCTRL) as Civil_Filings,  
SUM(F_FEL, TI_FEL) as Felony_Filings,  
SUM(F_TOTMS, TI_TOTMS, F_FTATR, TI_FTATR) as Misdemeanor_Filings,  
SUM(F_DUI, F_SER, TI_DUI, TI_SER, TF_EXSPD) as Criminal_Traffic_Filings,  
SUM(F_OTH, TI_OTH, F_TRFCV, TI_TRFCV, -TF_EXSPD) as Civil_Traffic_Filings  
FROM COURTS.JPDATA  
WHERE YEAR4 = &Calendar_Year-1 and county = &Select_County  
GROUP by Courtid  
Order by Courtid;
```

QUIT;

Used "%Select_County" %LET macro to select county

Used "%Calendar_Year-1" macro to select previous calendar year

PROC SQL;

```
CREATE TABLE Y2Data AS  
SELECT Courtid, Count(*) AS Months_count, County, Month, YEAR4,  
SUM(F_TOTCC, TI_TOTCC, HEAR_JUV, F_PB, F_FUG, F_DV, F_HAR, -OFFSCTRL) as Civil_Filings,  
SUM(F_FEL, TI_FEL) as Felony_Filings,  
SUM(F_TOTMS, TI_TOTMS, F_FTATR, TI_FTATR) as Misdemeanor_Filings,  
SUM(F_DUI, F_SER, TI_DUI, TI_SER, TF_EXSPD) as Criminal_Traffic_Filings,  
SUM(F_OTH, TI_OTH, F_TRFCV, TI_TRFCV, -TF_EXSPD) as Civil_Traffic_Filings  
FROM COURTS.JPDATA  
WHERE YEAR4 = &Calendar_Year and county = &Select_County  
GROUP by Courtid  
Order by Courtid;
```

QUIT;

Used "%Select_County" %LET macro to select county

Used "%Calendar_Year" macro to select current calendar year

PROC MEANS DATA=Y1Data SUM NOPRINT;

BY COUNTY COURTYD;

VAR Civil_Filings

Felony_Filings

Misdemeanor_Filings

Criminal_Traffic_Filings

Civil_Traffic_Filings;

OUTPUT

OUT=Y1SUM

SUM=Y1_Civil_Filings

Y1_Felony_Filings

Y1_Misdemeanor_Filings

Y1_Criminal_Traffic_Filings

Y1_Civil_Traffic_Filings;

PROC MEANS DATA=Y2Data SUM NOPRINT;

BY COUNTY COURTYD;

VAR Civil_Filings

Felony_Filings

Misdemeanor_Filings

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    Criminal_Traffic_Filings
    Civil_Traffic_Filings;
OUTPUT
OUT=Y2SUM
SUM=Y2_Civil_Filings
    Y2_Felony_Filings
    Y2_Misdemeanor_Filings
    Y2_Criminal_Traffic_Filings
    Y2_Civil_Traffic_Filings;

DATA Y1PROJ;
    SET Y1SUM;
ARRAY SUMDATA(5)
    Y1_Civil_Filings
    Y1_Felony_Filings
    Y1_Misdemeanor_Filings
    Y1_Criminal_Traffic_Filings
    Y1_Civil_Traffic_Filings;
DO I = 1 TO 5;
    SUMDATA{I} = (SUMDATA{I}/12)*12; *divide by 12 month;
END;
Year1_Number_of_Months = _freq_;
if Year1_Number_of_Months = . then Year1_Number_of_Months = 0;

DATA Y2PROJ;
    SET Y2SUM;
ARRAY SUMDATA(5)
    Y2_Civil_Filings
    Y2_Felony_Filings
    Y2_Misdemeanor_Filings
    Y2_Criminal_Traffic_Filings
    Y2_Civil_Traffic_Filings;
DO I = 1 TO 5;
    SUMDATA{I} = (SUMDATA{I}/12)*12; *divide by 12 month;
END;
Year2_Number_of_Months = _freq_;
if Year2_Number_of_Months = . then Year2_Number_of_Months = 0;

DATA JPC&Calendar_Year;
MERGE Y1PROJ Y2PROJ;
BY COUNTY COURTID;
    IF Y2_Civil_Filings = . THEN Y2_Civil_Filings = Y1_Civil_Filings;
    IF Y2_Felony_Filings = . THEN Y2_Felony_Filings = Y1_Felony_Filings;
    IF Y2_Misdemeanor_Filings = . THEN Y2_Misdemeanor_Filings = Y1_Misdemeanor_Filings;
    IF Y2_Criminal_Traffic_Filings = . THEN Y2_Criminal_Traffic_Filings = Y1_Criminal_Traffic_Filings;
    IF Y2_Civil_Traffic_Filings = . THEN Y2_Civil_Traffic_Filings = Y1_Civil_Traffic_Filings;
    Total_Year1=SUM(Y1_Civil_Filings,Y1_Felony_Filings,Y1_Misdemeanor_Filings,
        Y1_Criminal_Traffic_Filings,Y1_Civil_Traffic_Filings);
    Total_Year2=SUM(Y2_Civil_Filings,Y2_Felony_Filings,Y2_Misdemeanor_Filings,
        Y2_Criminal_Traffic_Filings,Y2_Civil_Traffic_Filings);
    Avg_Civil_Filings = Mean(Y1_Civil_Filings,Y2_Civil_Filings);
    Avg_Felony_Filings = Mean(Y1_Felony_Filings,Y2_Felony_Filings);
    Avg_Misdemeanor_Filings = Mean(Y1_Misdemeanor_Filings,Y2_Misdemeanor_Filings);
    Avg_Criminal_Traffic_Filings = Mean(Y1_Criminal_Traffic_Filings,Y2_Criminal_Traffic_Filings);
    Avg_Civil_Traffic_Filings = Mean(Y1_Civil_Traffic_Filings,Y2_Civil_Traffic_Filings);

```

Used "%Calendar_Year" macro to create temporary SAS database with current calendar year

```
JPC_Civil_Filings      = Avg_Civil_Filings/10;  
JPC_Felony_Filings    = Avg_Felony_Filings/10;  
JPC_Misdemeanor_Filings = Avg_Misdemeanor_Filings/10;  
JPC_Criminal_Traffic_Filings = Avg_Criminal_Traffic_Filings/10;  
JPC_Civil_Traffic_Filings = Avg_Civil_Traffic_Filings/60;  
Total_JPC=SUM(JPC_Civil_Filings,JPC_Felony_Filings,JPC_Misdemeanor_Filings,  
              JPC_Criminal_Traffic_Filings,JPC_Civil_Traffic_Filings);  
JPTXT=TRIM(PUT(COURTID,JPNEW.));  
CNTYTXT=TRIM(PUT(COUNTY,CNTYCAP.))||' COUNTY';  
YEAR1 = &Calendar_Year -1;  
YEAR2 = &Calendar_Year;  
SORTBY COUNTY JPTXT;
```

Used "%Calendar_Year" macro creates current and previous calendar years

The output section was deleted from here.

RUN;