**IDS 462 STATISTICAL SOFTWARAE FOR BUSINESS**

**HOMEWORK 1**

**TEAM MEMBERS**:

1. Harish Visweswaraiya
2. Balachandhar Chekka Narayanasame
3. Sriram Ravi
4. Vinodh Sankaran

**1. Create a temporary SAS dataset called “psales”**

**Code**

/\* Question 1 \*/

DATA psales;

   infile '/folders/myfolders/SAS\_HW1/Sales - All Categs\_Pharm.csv' DLM=',' DSD MISSOVER FIRSTOBS=2;

   input prodid $

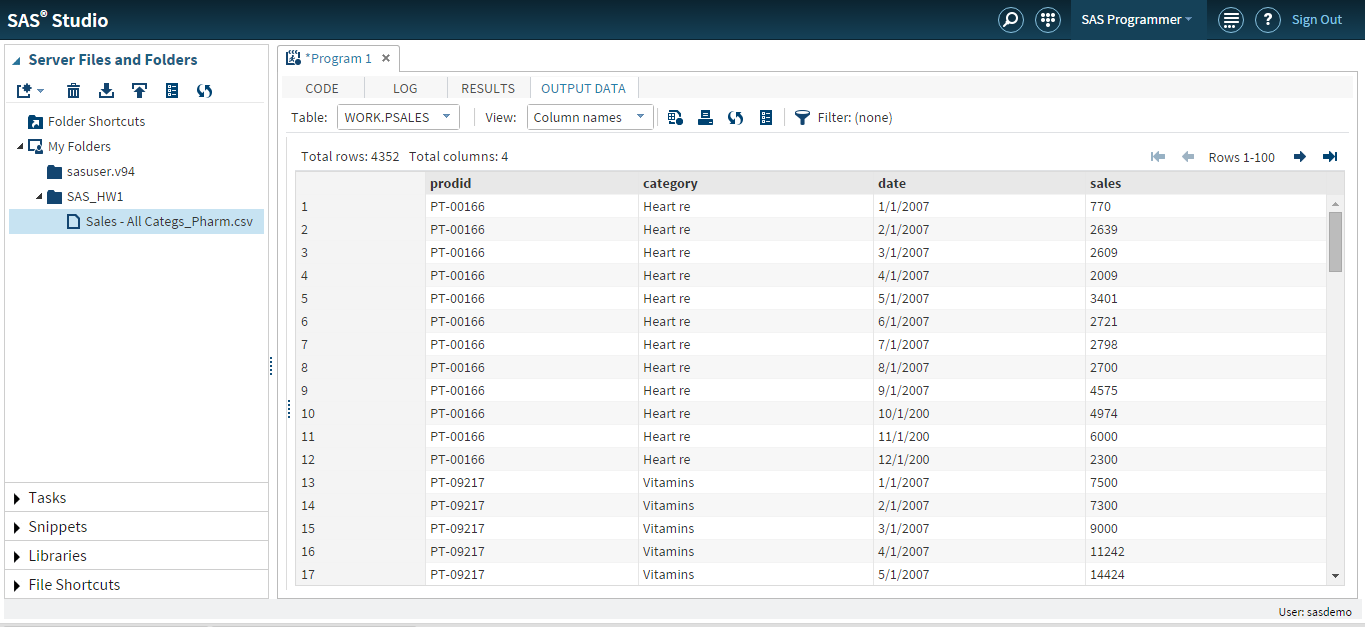
   category $

   date $

   sales $;

RUN;

**Output Data**

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**2. Create a new variable, called adjSales (to indicate the adjusted sales for each date) using the following formula:**

* + 1. **1.25\*sales + 10 \* rand('UNIFORM'); \* where rand('UNIFORM') produces a random variable from uniform distribution between 0 & 1;**

**Code**

/\* Question 2 \*/

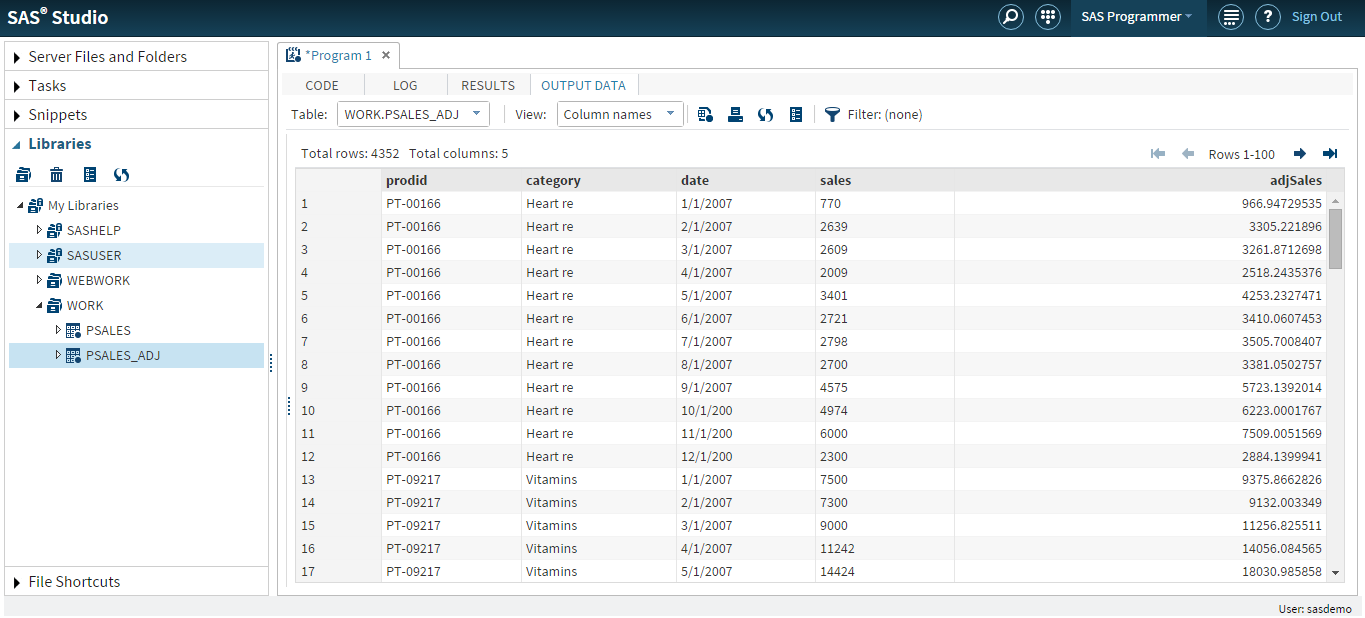
DATA psales\_adj;

set psales;

adjSales = 1.25\*sales+10\*rand('UNIFORM');

RUN;

**Output Data**

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**3. Sort data by category and output the sorted data to a permanent dataset called as newSales (which should be used for the following steps)**

**Code**

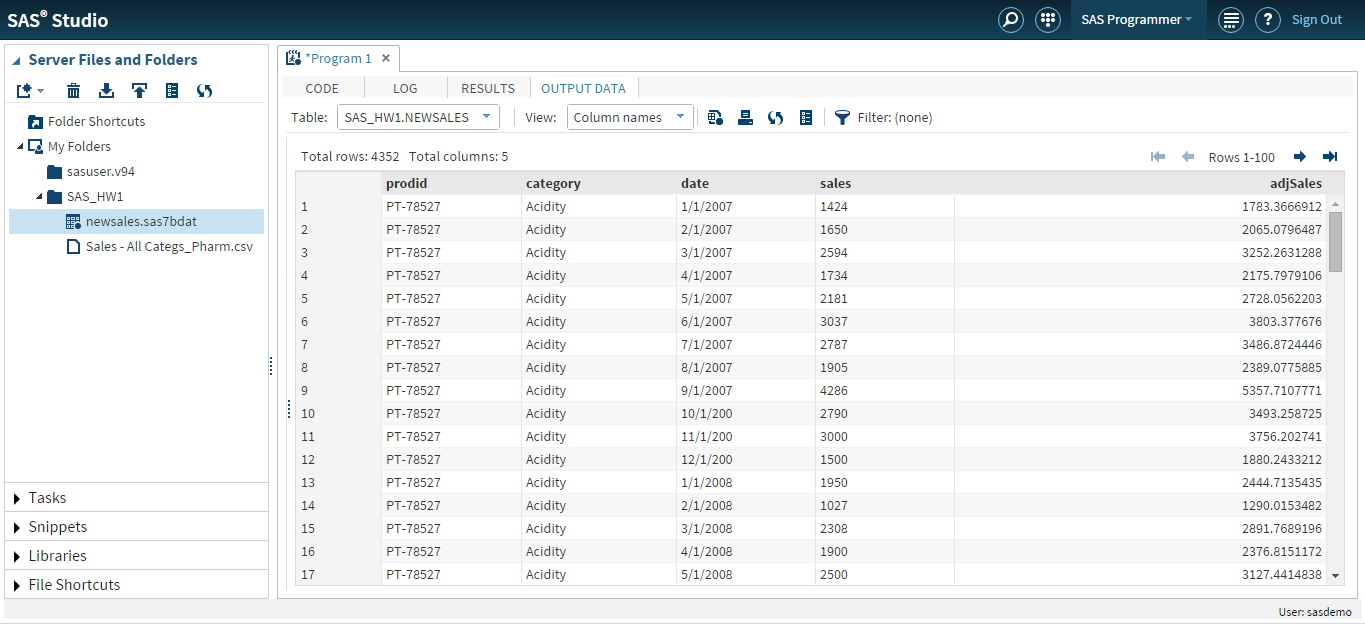
/\* Question 3 \*/

libname SAS\_HW1'/folders/myfolders/SAS\_HW1';

proc sort data=Work.psales\_adj out=SAS\_HW1.newsales; by category;

RUN;

**Output Data**

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**4. Find average adjSales by category, output to a dataset called as aveSales with noprint option and print the results from aveSales**

**Code**

/\* Question 4 \*/

proc means data=SAS\_HW1.newsales noprint;

VAR ADJSALES;

BY CATEGORY;

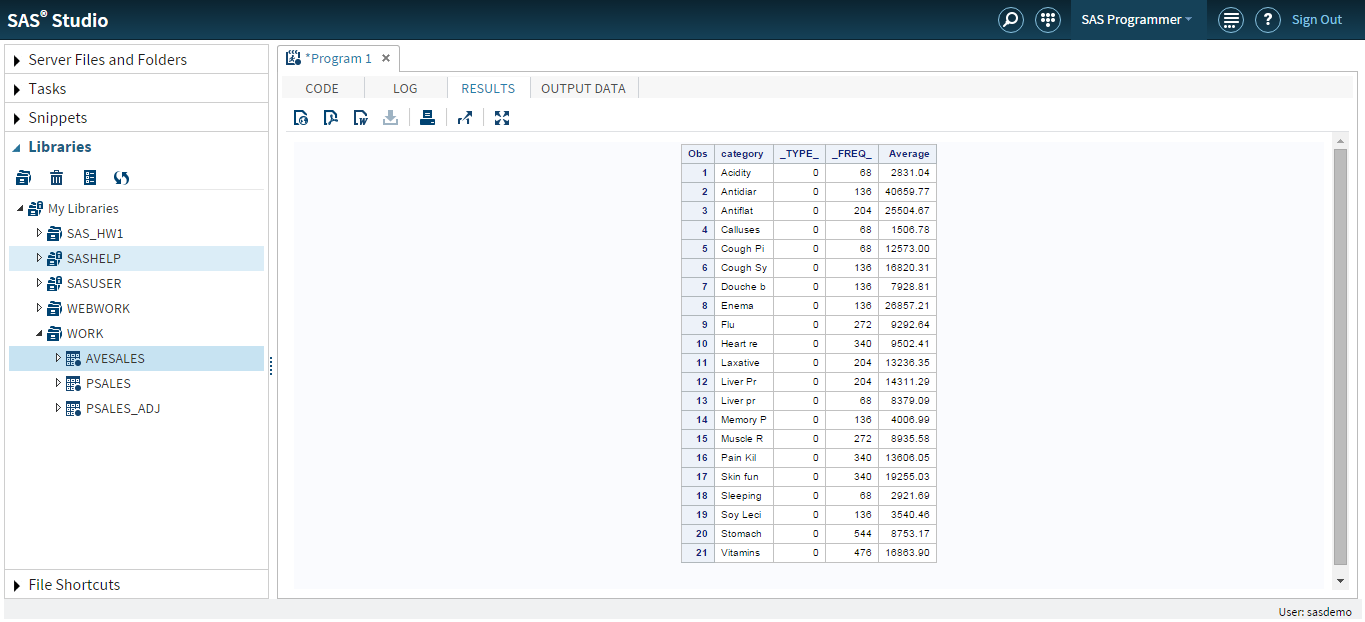
output out=avesales mean=Average;

RUN;

proc print data=avesales;

RUN;

**Output Data**

****

**5. Count how many observations there’s for each category, output and print the results.**

**Code**

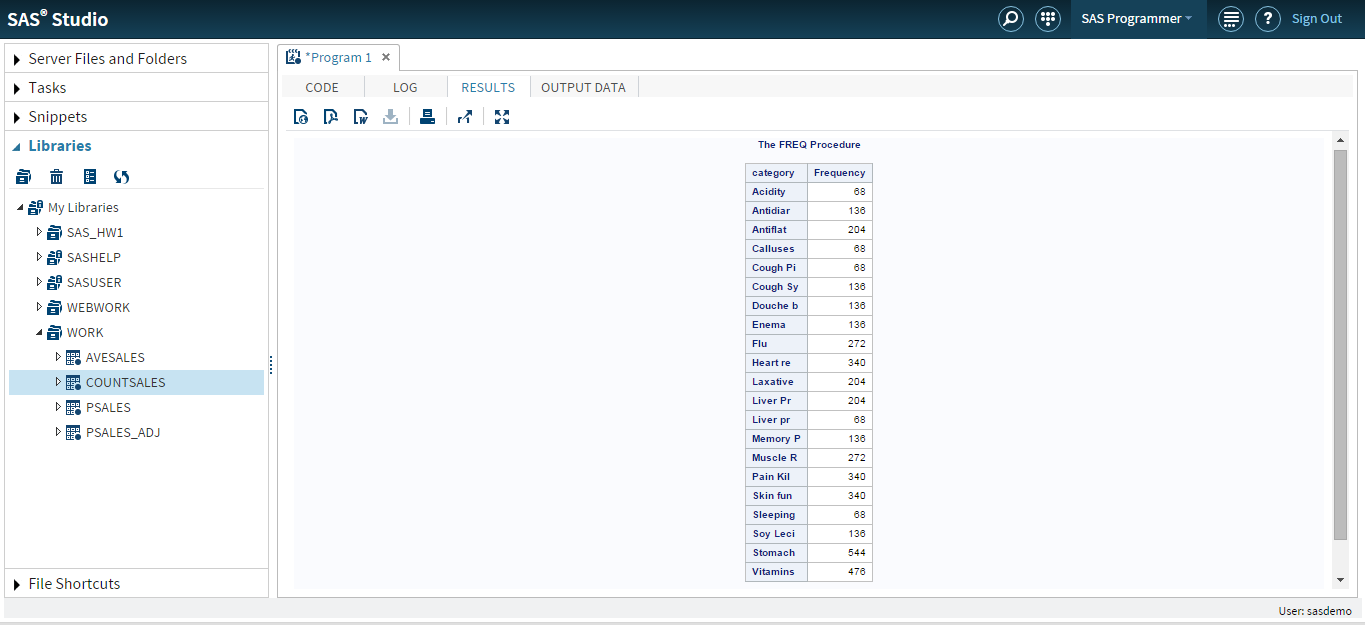
/\* Question 5 \*/

proc freq data=SAS\_HW1.newsales;

tables category/out=countsales norow nocol nopercent nocum;

RUN;

**Output Data**

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**6. Choose 1 category of your preference. Create a data set consisting of observations for that category only, name the dataset by an abbreviation of the category**

**Code**

/\* Question 6 \*/

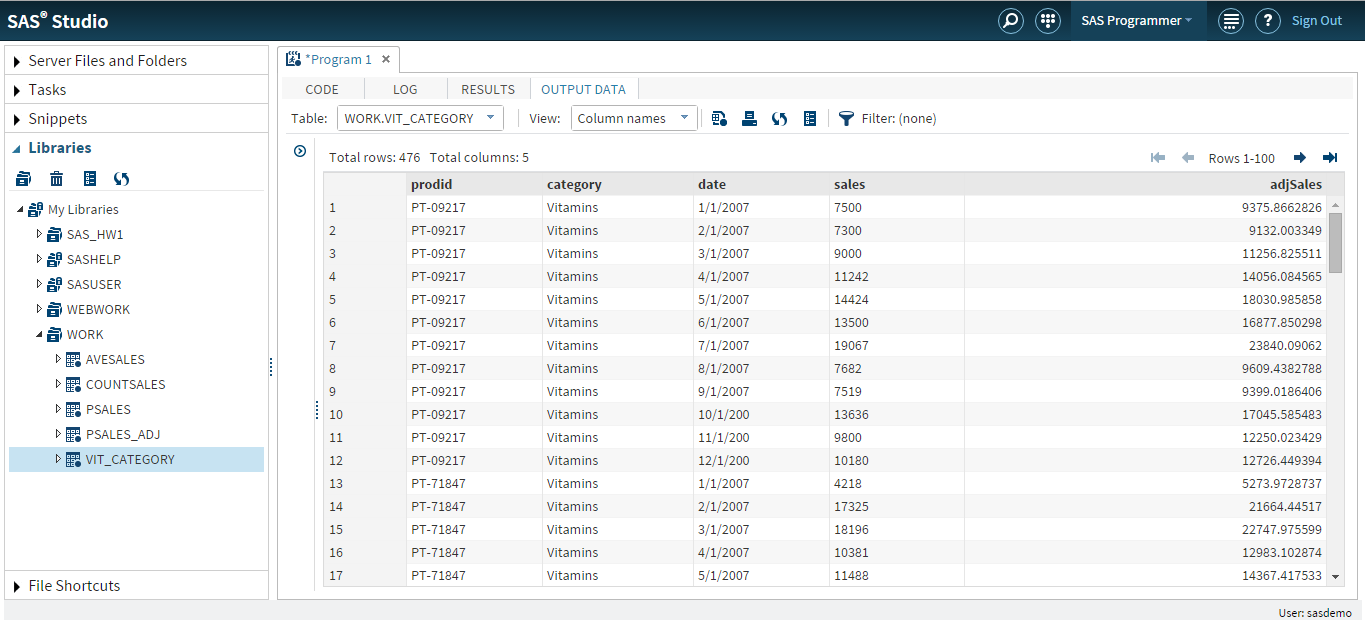
DATA Vit\_category;

set SAS\_HW1.newsales;

if category='Vitamins';

RUN;

**Output Data**

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**7. Print 5 observations from the category dataset with a title indicating the category**

**Code**

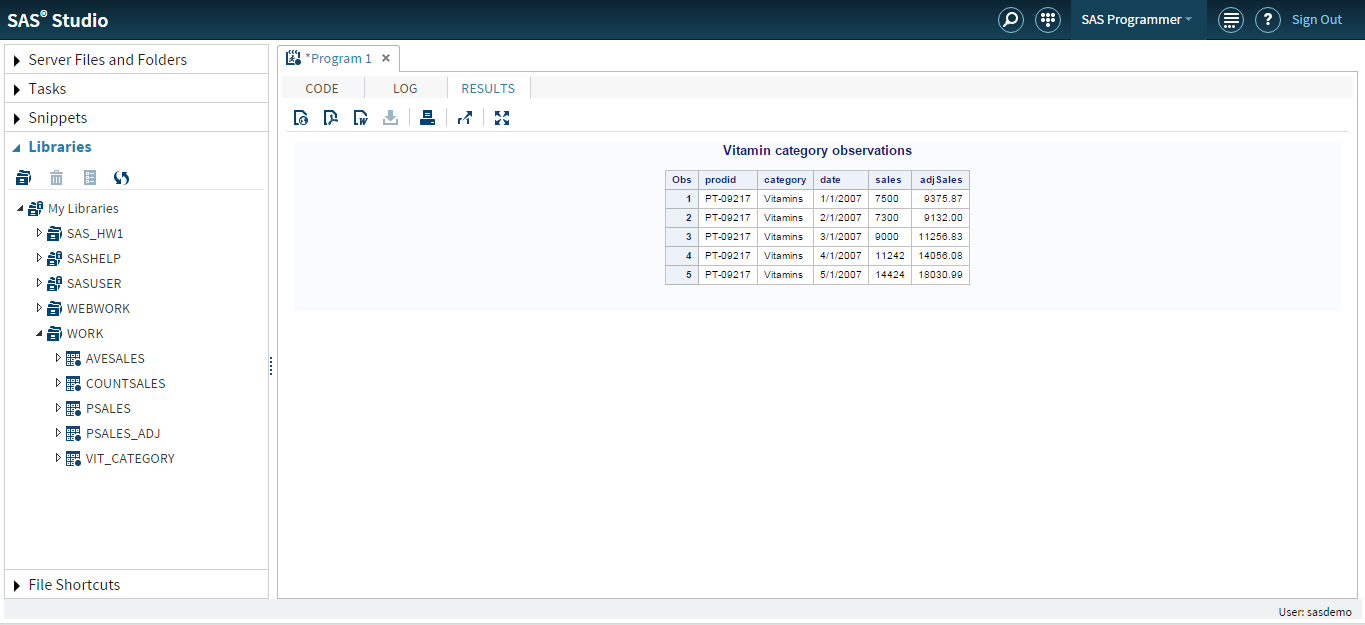
/\* Question 7 \*/

proc print data=Vit\_Category(obs=5);

title "Vitamin category observations";

RUN;

**Output Data**

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