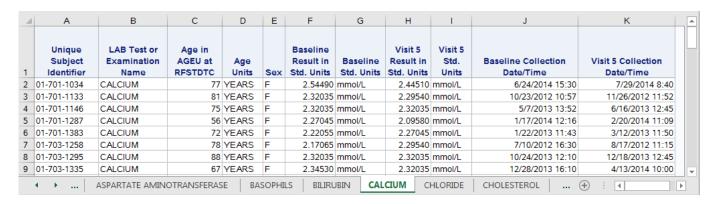
# Integrating SAS® and Microsoft Excel: Exploring the Many Options Available to You Vince DelGobbo, SAS Institute Inc., Cary, NC - sasvcd@sas.com

## **Excel Workbook to Import**



## **SAS Data Set to Export**

| Variable          | Туре      | Length | Format     | Label                         |
|-------------------|-----------|--------|------------|-------------------------------|
| AGE               | Numeric   | 8      |            | Age in AGEU at RFSTDTC        |
| AGEU              | Character | 6      |            | Age Units                     |
| COUNTRY           | Character | 3      |            | Country                       |
| SEX               | Character | 1      |            | Sex                           |
| arm               | Character | 20     |            | Description of Planned Arm    |
| baseline_lbdtn    | Numeric   | 8      | E8601DT19. | Baseline Collection Date/Time |
| baseline_lbstresn | Numeric   | 8      |            | Baseline Result in Std. Units |
| baseline_lbstresu | Character | 8      |            | Baseline Std. Units           |
| baseline_visitnum | Numeric   | 8      |            | Baseline Visit Number         |
| Ibtest            | Character | 38     |            | LAB Test or Examination Name  |
| race              | Character | 78     |            | Race                          |
| studyid           | Character | 12     |            | Study Identifier              |
| usubjid           | Character | 11     |            | Unique Subject Identifier     |
| visit5_lbdtn      | Numeric   | 8      | E8601DT19. | Visit 5 Collection Date/Time  |
| visit5_lbstresn   | Numeric   | 8      |            | Visit 5 Result in Std. Units  |
| visit5_lbstresu   | Character | 8      |            | Visit 5 Std. Units            |
| visit5_visitnum   | Numeric   | 8      |            | Visit 5 Visit Number          |
|                   | •••       |        | •••        |                               |

**VALIDVARNAME=any:** SAS system option that allows special characters in SAS variable names

VALIDMEMNAME=extend: SAS system option that allows special characters in SAS data set names

SAS Name Literal Syntax Examples: var 'My Variable Name'n; data work.'My Data Set Name'n;

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### **Import Excel Data Examples**

```
proc import out=work.calcium file='Calcium.csv' dbms=csv replace;
    guessingrows=max;
run; quit;

data _null_; infile 'Calcium.csv'; input ...; run;

proc import out=work.calcium file='LabResults.xlsx' dbms=xlsx replace;
    sheet='calcium';
run; quit;

libname xl xlsx 'LabResults.xlsx';

data work.calcium; set xl.calcium; run;

proc datasets nolist; copy in=xl out=work; run; quit;
SAS/ACCESS
Interface to
PC Files
```

## **Export SAS Data Examples**

```
proc export data=sample.LabResults file='LabResults.csv' dbms=csv replace;
run; quit;

data _null_; infile 'Calcium.csv'; input ...; run;

ods Excel file='LabResults.xlsx' options( ... );
    proc print data=sample.LabResults; ...; run; quit;
run; quit;

libname xl xlsx 'LabResults.xlsx';

data xl.Albumin; set sample.LabResults; where (lbtest eq 'ALBUMIN'); run;
data xl.Calcium; set sample.LabResults; where (lbtest eq 'CALCIUM'); run;
proc datasets; copy in=mylib out=xl; select ... / memtype=data; run; quit;

SAS/ACCESS
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```

#### Paper, Data, and Code

https://github.com/sascommunities/sas-global-forum-2019/blob/master/2991-2019-DelGobbo

#### **Other Papers**

http://www.sas.com/reg/gen/corp/867226?page=Resources

or

http://support.sas.com/rnd/papers/intro-multisheet-excel-with-sas/index.html

### **User Group Request Form**

If your registered in-house or local SAS users group would like to request this or one of my other presentations as your annual SAS presentation (as a seminar, talk, or workshop) at an upcoming meeting, please submit an online User Group Request Form (bit.ly/2W2KGUB) at least eight weeks in advance.