

# Putting code into Enterprise Guide™

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# Aims

- Illustrate *some* of the flexibility of Enterprise Guide (EG) in incorporating and producing SAS code,
- Motivate the use of Enterprise Guide for routine coding

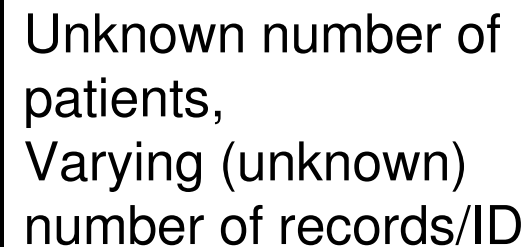
# Why Use EG

- Have to
- Quick proto typing of code (reports, charts, etc.)
- Visualise/audit code

## Example

Split a very large longitudinal (transactional) data sets into multiple data sets, one for each ID;

```
data patient_table;  
    input id $1-4 x y z ;  
cards;  
0001 2 4 3  
0004 8 9 2  
0004 5 3 1  
0004 7 8 1  
0002 5 6 9  
0002 3 1 4  
0005 6 3 7  
0003 0 1 5  
0003 3 1 5  
;  
run;
```



Unknown number of patients,  
Varying (unknown)  
number of records/ID

## Solution

Set up a macro that makes two passes through the data set;

1. Stores number of patients in a macro variable and creates a data set name (macro variable) for each ID,
2. Uses macro variables to repeatedly read the main data set, producing a data set for each ID

The macro could be written using the SAS program editor or directly in EG using its own language editor;

**File ▶ New ▶ Code**

## Step 1: Introduce code into EM

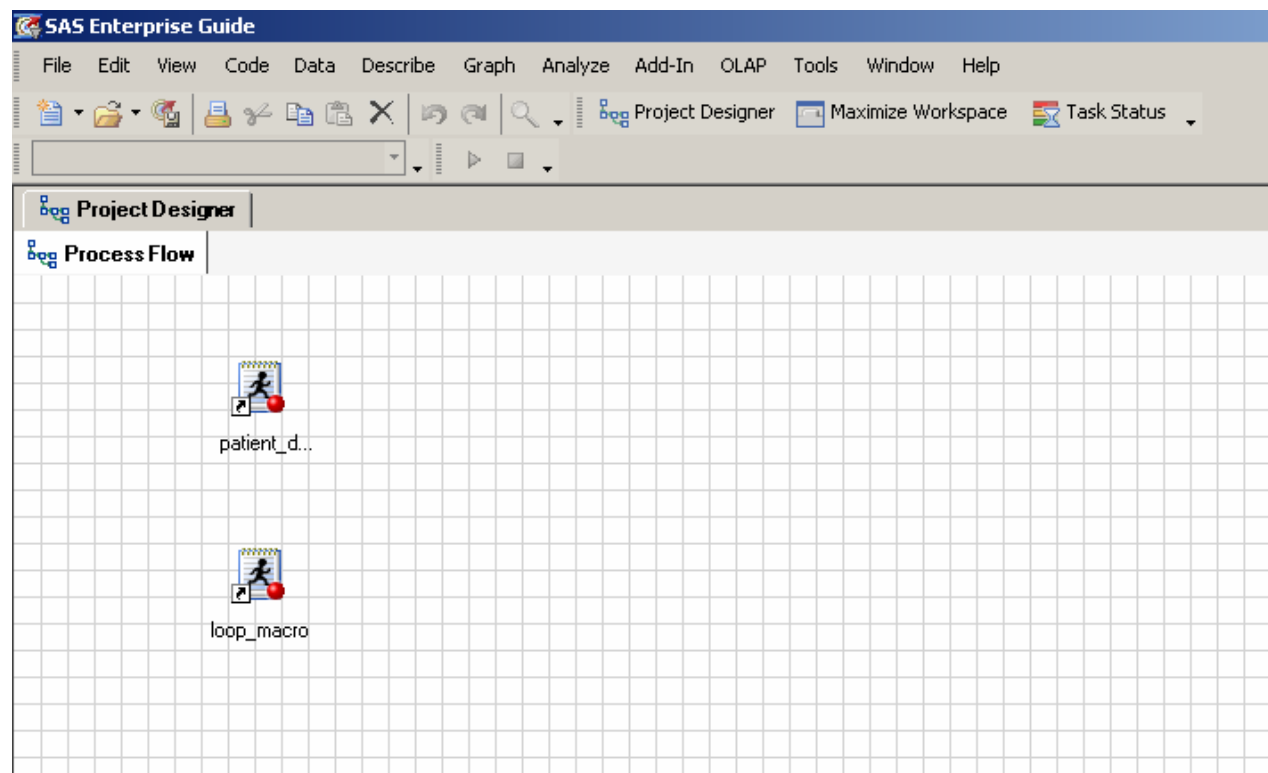
**File ▶ Open ▶ Code**

And then select the location where the code resides.

Either:

- Local Computer
- SAS Servers

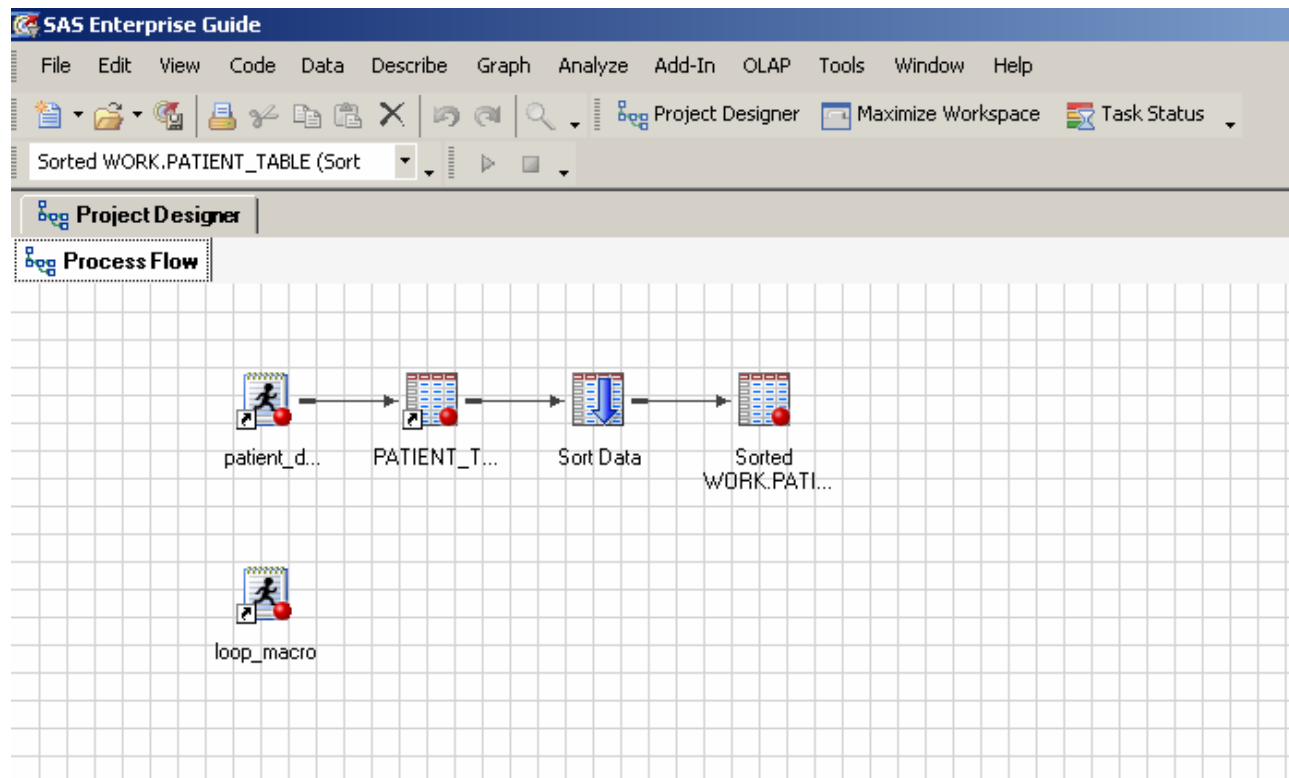
## Step 1: Introduce code into EM



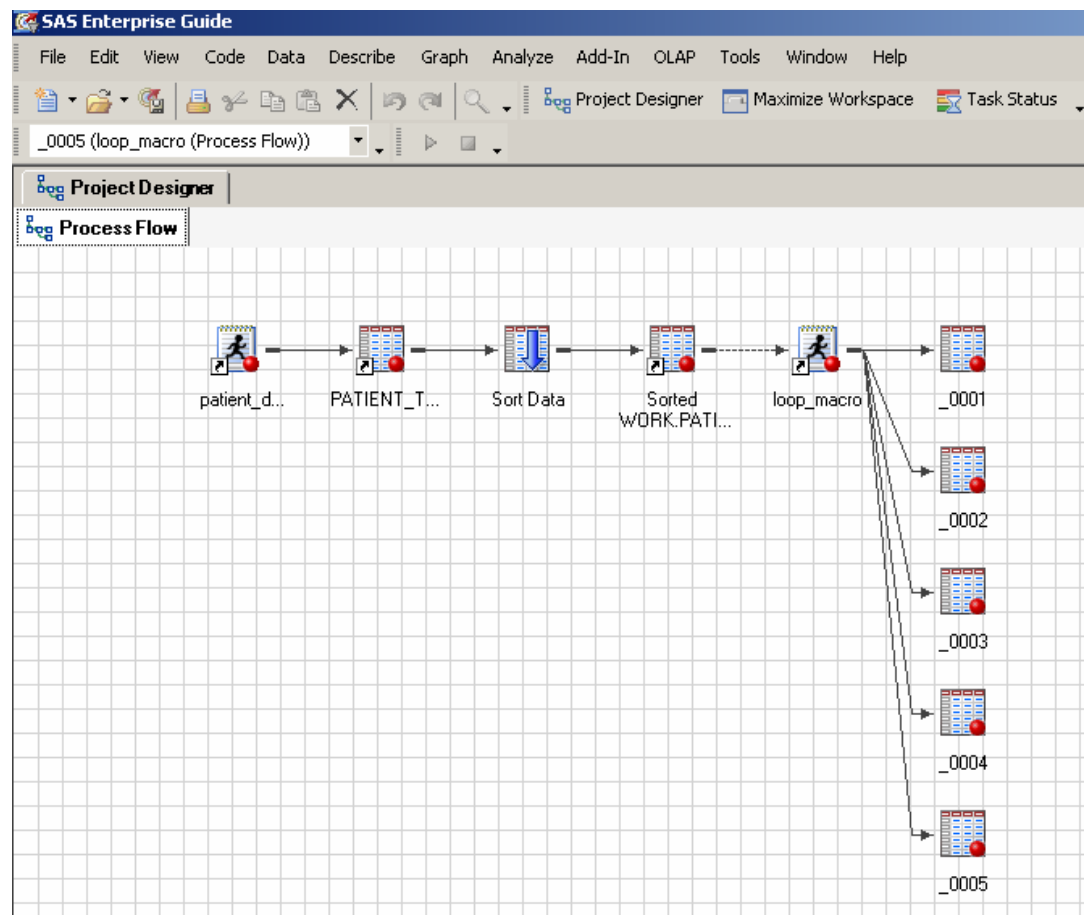
## Step 2: Process Data

The macro code requires the data to be sorted by ID. We will use EG to do this (**Data ▶ Sort Data ...**).

## Step 2: Process Data



## Step 3: Link sorted data set to macro code & run

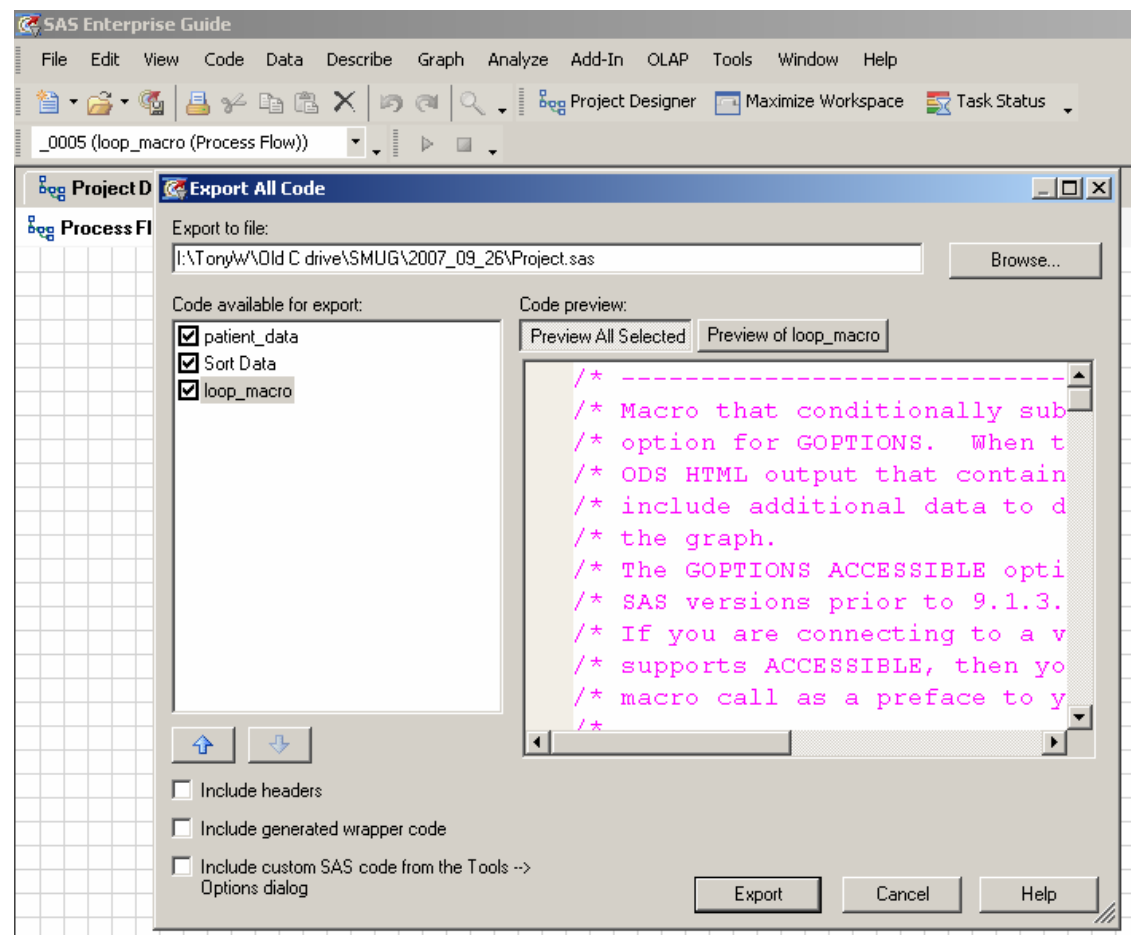


## Step 4: (Optional) Export all the code

You can export all the code in a project into a single code file;

**File ► Export ► Export All Code**

## Step 4: (Optional) Export all the code



# Summing Up

- EG visualises code in a 2 D sense,
- The flow of data through a program can be appreciated without having to understand the detail of every component,
- You can quickly build up large programs by using EG to supply the simple tasks and export all or part of the code