OBJECTIVE: Gain an understanding of how an IPUMS USA dataset is structured and how it can be leveraged to explore your research interests. This exercise will use IPUMS USA to explore farm ownership and veteran status in the United States.
Research Questions
What are the patterns of household characteristics in the U.S.?

Objectives
- Select datasets and variables of interest
- Analyze the data using sample code
- Validate data analysis work using answer key

IPUMS Variables
- BLIND: Blind
- DIFFEYE: Seeing difficulty
- KITCHEN: Whether or not the household has a kitchen
- MARST: Marriage status

SDA Code to Review

<table>
<thead>
<tr>
<th>Field</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Row</td>
<td>Represents the primary variable of interest</td>
</tr>
<tr>
<td>Column</td>
<td>Divides the analysis of the variable of interest into categories</td>
</tr>
<tr>
<td>Control</td>
<td>Creates a separate chart for each category of the control</td>
</tr>
<tr>
<td>Selection Filter</td>
<td>Allows you to select cases; ex: year(2000-* -&gt; all years 2000-onward</td>
</tr>
</tbody>
</table>

Answer Key (page 3)

Common Mistakes to Avoid
1. Choosing numerical instead of categorical variables for the Frequencies/Cross Tabulation Program. For these, use the Comparison of Means Program instead.
2. Forgetting to specify the years of interest
Getting Started

- Go to http://usa.ipums.org/usa/sda/, and select the 1870 1% sample
- The default analysis is frequency/tabulation

- Either browse variables under the Household and Person variables categories, or Search on the main IPUMS USA site for variables
- When you browse for a variable, click on it, and it will appear in the Selected box. To send the variable to your input section, click the appropriate box (Row, etc)
- Row and Column are the variables of interest that you will perform the cross-tabulation on
- Filters select only specified cases
- A Control creates multiple tables for row and column variables, separated by a third categorical variable. For example, if you include the variable SEX as a control, you will get two frequency tables
- The Weight default is person weight (perwt), which extrapolates the sample to represent the entire population
Part I - Basic Frequencies

A) What is the number and percent of blind people in 1870?

B) What is the number and percent of people with a vision difficulty in 2010? Return to the previous page and select the 2010 sample

C) What is the universe for the variable KITCHEN? Find the variable description on the main website.

D) What percent of people had a kitchen in their home in 1980? In 2010?

E) What percent of households had a kitchen in their home in 1980? In 2010?

F) What proportion of women and men ages 65+ are widows/widowers in 2010?

What proportion of the population ages 65+ are women and men in 2010?
ANSWERS: Part I – Basic Frequencies

A) What is the number and percent of blind people in 1870? **20,969 people, 0.1% of people were blind in 1870.**
Row: blind
Weight: perwt

B) What is the number and percent of people with a vision difficulty in 2010? **6,855,575 people, 2.2% of the population had difficulty seeing in 2010.**
Row: diffeye
Weight: perwt

C) What is the universe for the variable KITCHEN? Find the variable description on the main website. **Not group quarters**

D) What percent of people had a kitchen in their home in 1980? In 2010? **98.3% in 1980 and 99.2% in 2010**
Row: kitchen
Filter: gq(1-2)
Weight: perwt

E) What percent of households had a kitchen in their home in 1980? In 2010? **98.1% in 1980 and 99.0% in 2010**
Row: kitchen
Filter: gq(1-2), pernum(1)
Weight: hhwt

F) What proportion of women and men ages 65+ are widows/widowers in 2010? **40.5% of women and 13.2% of men**
What proportion of the population ages 65+ are women and men in 2010? **56.9% are women and 43.1% are men.**
Row: marst
Column: sex
Selection filter: age(65-*)
Weight: perwt
In TABLE OPTIONS, choose "Column Percentaging"