

Al-Mustaqbal University College
Department of Anesthesia techniques
Third Stage

Lecture 3

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3. Reducing sample size

- Using random sampling
- Let's assume you are dealing with 2 million observations.
- This creates a problem – whenever you run a procedure, it takes too much time, the computer crashes and/or runs out of disk space.
- To avoid this problem, you may want to pick only 100,000 observations, chosen randomly, from the data set.



3. Reducing sample size

- Go to DATA/SELECT CASES.
- Select the option “**Random Sample of Cases**” by clicking on the round button to the left of it.
- Click on the button “**Sample.**”
- Select the option “**Approximately**” by clicking on the round button to the left of it.
- Type in the size of the new sample relative to the size of the entire data set.

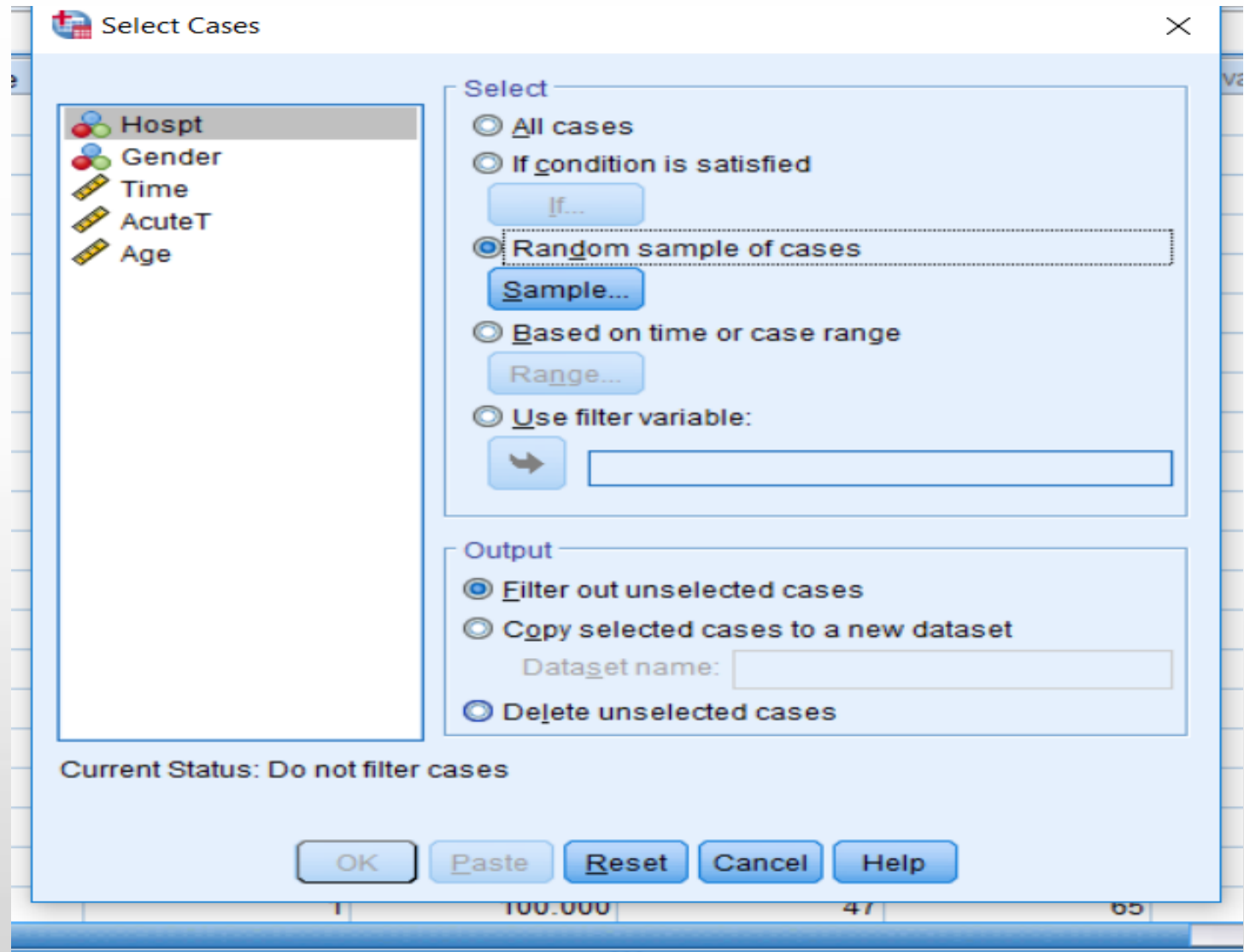


3. Reducing sample size

- **Example**

- The relative size is **5%** of the entire data - SPSS will randomly select **100,000** cases from the original data set of 2 million.

3. Reducing sample size





4. Filtering data

- It will often be the case that you will want to select a Sub-set of the data according to **certain criteria**.
- For example, let's assume you want to run procedures on only those cases in which **education level is over 6**.



4. Filtering data

- In effect, you want to temporarily **“hide”** cases in which education level **is 6 or lower**, run your analysis, then have those cases back in your data set.
- Similarly, you can study the statistical attributes of **females only**, **adult females only**, **adult females with high school** or greater education only, etc.



4. Filtering data

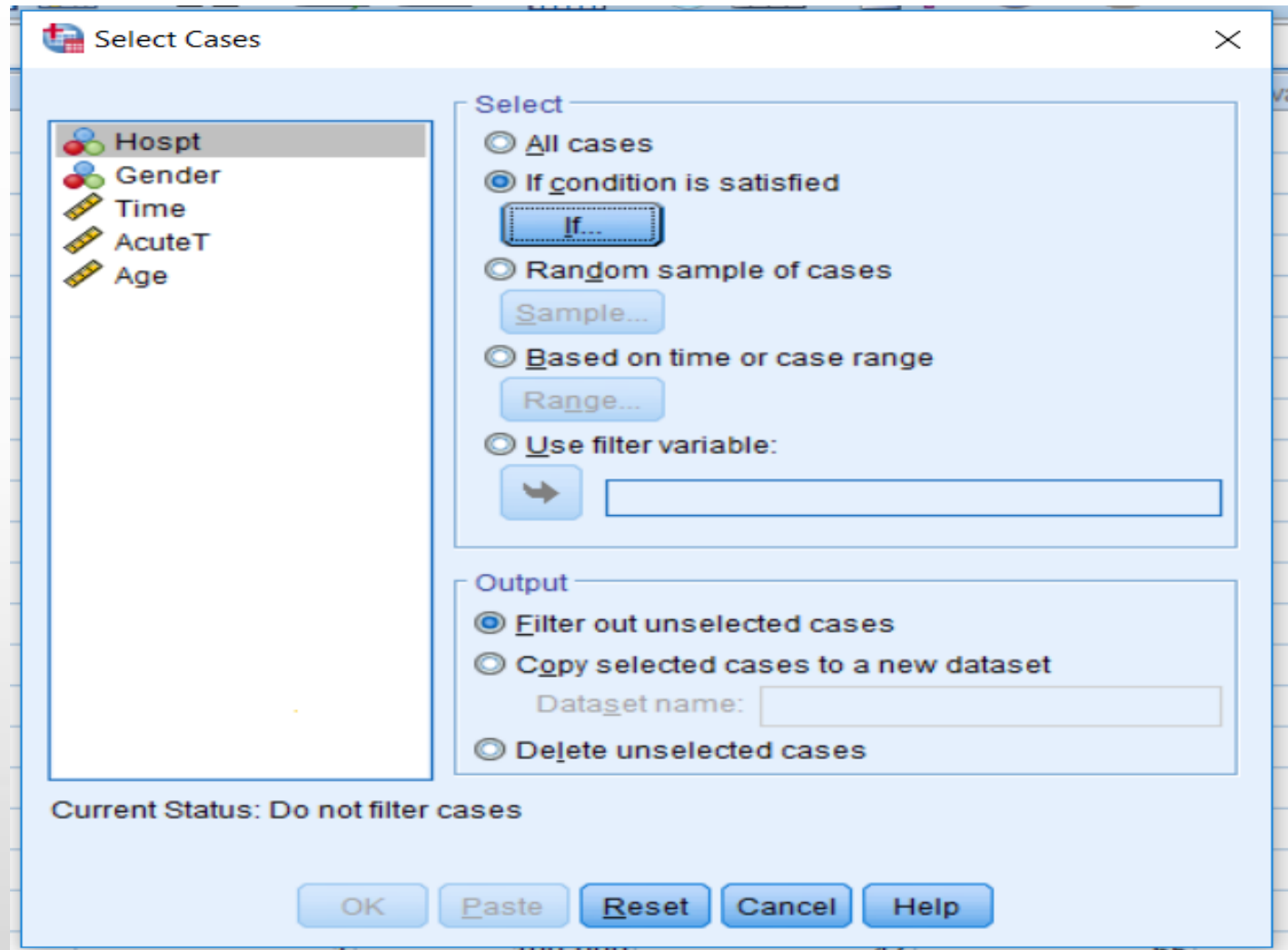
- A simple filter
- Suppose you want to run an analysis on only those cases in which the respondent's education level is greater than 6.
- Go to DATA/ SELECT CASE
- When the dialog box opens, click on “If condition is satisfied.”
- Click on the button “If.”



4. Filtering data

- Such a condition must have variable names. These can be moved from the box on the left (area "1").
- Area "3" has some functions that can be used for creating complex conditions. Area "4" has two buttons you will use often in filtering: "&" and "|" (for "or"). As you read this section, the purpose and role of each of these areas will become apparent.

4. Filtering data





*Thank
You
For
Listening*