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Chesapeake College at 50

SAS Enterprise Guide: A Primer for IR Applications

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Maryland Association for Institutional Research
Spring Institute
April 27, 2018

What is SAS Enterprise Guide?

- SAS EG gives you the power of SAS through a point and click graphical user interface (GUI).
- What is it used for?
 - From simple to in-depth data analysis
 - Statistical analysis
 - It can produce charts, graphs, and tables
- We're only going to cover a small part of what SAS EG can do.

Comparison to other IR tools

- Excel
- Access
- SPSS

- Added advantage, you can save and re-run processes.

Data Analysis – what we will show you today

- Import files
- Build queries
- Perform file joins
- Create a computed column
- How to unduplicate records
- Use Filters
- Run statistical analysis

Research Questions

1. What is the unduplicated number of first-time freshmen each fiscal year?
2. What is the unduplicated number of first-time freshmen each fall/spring?
3. What percentage of fall first-time freshmen are college ready each fiscal year?
4. What is the fall-to-spring retention of fall first-time freshmen by college-readiness each fiscal year?
5. Are there significant differences in the retention rates of fall first-time freshmen by college-readiness?

SAS EG compared to other IR tools

	SAS Advantages	SAS Disadvantages
Excel	<ul style="list-style-type: none"> • Allows for merging of multiple files via multiple keys • GUI Interface provides clear process map for identifying sequence of steps • Original data intact after processes make changes 	<ul style="list-style-type: none"> • Query outputs temporary by default • Data set edits may not remain after exit • Output not user-friendly • Requires database skills/way of thinking
Access	<ul style="list-style-type: none"> • GUI Interface provides clear process map for identifying sequence of steps • Base code captured to allow for subsequent editing/usage • Error checking pinpointing specific offending code 	<ul style="list-style-type: none"> • Less institution-wide usage • Costly compared to “free” component of MS Office • Training less available and more costly
SPSS	<ul style="list-style-type: none"> • Allows for merging of multiple files via multiple keys • Handles text manipulation (e.g., substrings & concatenation) • More flexibility and complexity possible in computed columns and filters 	<ul style="list-style-type: none"> • Does not handle labels (variable, value) and missing values as well • Reporting formats not as user friendly • Some statistical processes do not have same flexible options (e.g., MANOVA) • Not all processes available via point and click; need to know programming

Interested?

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Thank you

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