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AMERICAS | MAY 18-20 ASIA PACIFIC | MAY 19-20 EMEA | MAY 25-26 $\qquad$
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HARNESSING RAW DATA FROM SUBMISSION FORMS TO GAUGE FOOD INSECURITY AMONG COLLEGE STUDENTS $\qquad$
Zoraya Cruz-Bonilla, MPA | Binghamton University

Zoraya Cruz-Bonilla has worked at Binghamton University for over 12 years. Her role as Data Research Analyst in the Office of Student Affairs Assessment calls upon the exploration. manipulation, or collection of student data to gain meaningful manipulation, or collection of student data to gain meaningfur in public administration and graduated with honors.

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| Presentation goals... | , |
| :---: | :---: |
| (6) Showcase the aggregation of raw data from several *.csv files. | Develop the competency to distinguish between the append table task and matchmerge as distinct methods for compiling multiple time-series data. |
| (6) Demonstrate functions for parsing time-series data. |  |
| (G) Introduce options for embedding | ub Comprehend the applications of functions such as INTNX and COMPRESS. |
| graphical interface (i.e., SAS® | 1. Recognize options for inserting custom code. |
| Enterprise Guide). | 1. Attribute $\mathrm{SAS}{ }^{\oplus}$ Visual Analytics as a tool for communicating the story behind the data. |
| (6) Briefly highlight the integration of SAS® Visual Analytics for reporting data graphically. |  |
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Finding the right platform to collect good data AND USING AVAILABLE ANALYTIC TOOLS TO TELL THE STORY


DATA COLLECTION VIA SUBMISSION FORMS
*.ESV FILE

Importing raw data into SAS ${ }^{\circledR}$ Enterprise Guide


Using the append table task to combine MULTIPLE *.CSV FILES


Creating computed columns to Parse THROUGH TIME-SERIES DATA


Writing an expression with a function TO CREATE COMPUTED COLUMNS


Creating a computed column to evaluate the day of the week

| Computed Column | Output |  |
| :---: | :---: | :---: |
| WEEKDAY <br> COMPRESS((PUTT((DATEPART(t1.DATETIME))), weekdate9.)), 's') | Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, or Saturday |  |
| WEEKOF CASE | MM/DD/YY <br> *Mondays only |  |
| WHEN ( WEEKDAY(DATEPART(t1.datetime))) $=1$ THEN (INTNX('day', (DATEPART(t1.DATETIME)), 1)) WHEN ( (WEEKDAY (DATEPART(t1. datetime) ) $=2$ THEN (DATEPART(11. DATETIME) $)$ | 1 | Sunday |
| WHEN (WEEKDAY(DATEPART(11.datetime)) $=3$ THEN (INTNX('day', (DATEPART(t1.DATETIME)), -1)) | 2 | Monday |
| WHEN (WEEKDAYY(DATEPART(t1.datetime)) $=4$ THEN (INTNX('day', (DATEPART(t1. DATETIME)),-2)) | 3 | Tuesda |
|  | 4 | Wednesday |
|  | 5 | Thursday |
| END | 6 | Friday |
|  | 7 | Saturday |
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Using the INTNX function to determine BOUNDARIES FOR MULTI-DAY INTERVALS

| COMPUTED COLUMN | Output |  |  | $\bigcirc$ |
| :---: | :---: | :---: | :---: | :---: |
| WKBRKDWN | Mm/DD/NY <br> * Fridays only |  |  |  |
| CasE |  |  |  |  |
|  | Datetime | WEEKDAY | TIME | wkBrkown |
|  | 10/2/2020 17:04 | Finday | 5.04 PM | 10/2/20 |
|  | 1013/2020 1558 | Salurdey | 1.58 AM | 10/2/2020 |
|  |  |  |  |  |
|  | 0/4/2020 0:18 | Surday | 12.18 AM | 10/2/20 |
|  | 10/5/2020 10:06 | Hodd | 10.06 A | 10/2/2020 |
|  | 10162020290 | tweday | 2:19 AM | 10/2/202 |
|  | 107/2020 2:44 | Wednestay | $2: 44$ AM | 10/2/2020 |
|  | 1018/2020 12:06 | Thursdav | 12:06 PM | 10/2/202 |
|  | 10/9/2020 4.55 | Exidey | 4.55 PN | 102/220 |
|  | 10/10/2020 19:00 | Saturday | 5:50 PM | 10/9/2020 |
| END) |  |  |  |  |
| \#SASGF zerubombirstentonetu |  | SAS | LOBALFO | RUM 2021 |

Writing code in SAS ${ }^{\circledR}$ Enterprise Guide to QUANTIFY TOTAL WEEKS PER STUDENT


Writing code in SAS ${ }^{\circledR}$ Enterprise Guide to IDENTIFY THE FIRST VISIT AND THE SEQUENCE OF VISITS


Writing code in SAS ${ }^{\circledR}$ Enterprise Guide to MATCH-MERGE DATA SETS

DATA FPUSERMETRICS_AY2020;
MERGE WORK.RES_YTD_VISITS WORK.TOT_WEEKS
BY ID_NUMBER;


Recap: Tasks, Functions, and Program Code in SAS ${ }^{\circledR}$ Enterprise Guide

| Import | Append | Computed <br> Columns | Demographics |
| :--- | :---: | :---: | :---: | Merge

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Integrating SAS ${ }^{\circledR}$ Visual Analytics FOR REPORTING PURPOSES


Using SAS ${ }^{\circledR}$ Visual Analytics to show


Using SAS ${ }^{\circledR}$ Visual Analytics to


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Harnessing raw data from submission forms to gauge food insecurity among college students

## References

- Cody, R. (2010). SAS functions by example, Second edition. SAS Institute.
 malatras-visits-binghamton-university-food-pantry.
Foley, M. (2009). Merging vs.j.jining: Comparing the DATA step in 501
support.sas.com/resources/papers/proceeding $509 / 036$-2009.pdf.
Wicklin, R. (2018). How to use FIRST.variable and LAST.variable in a BY-group analysis in SAS. Retrieved 02/26/2022 from
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