

CP5804: SAS Week 4

Collaborative Tutorial

Session

Presented by Sisi

SAS Essentials

➤ Installation:

❑ SAS University Edition: https://www.sas.com/en_au/software/university-edition/download-software.html

❑ VirtualBox: https://www.virtualbox.org/wiki/Download_Old_Builds_5_2,
(Tip: please download 5.2.X builds instead of the latest version)

➤ Weekly materials:

❑ Assessments → SAS Self-Training Content

❑ Assessments → Assessment 5 (SAS Coursework)

Troubleshooting VirtualBox

- Check if you have enabled VT-X in BIOS in startup. Could refer to the link for details: https://docs.fedoraproject.org/en-US/Fedora/13/html/Virtualization_Guide/sect-Virtualization-Troubleshooting-Enabling_Intel_VT_and_AMD_V_virtualization_hardware_extensions_in_BIOS.html;
- If VT-X is already enabled, check if Hyper_V is turned off. Try running the following in Command Prompt (Run): **dism.exe /Online /Disable-Feature:Microsoft-Hyper-V**. Could refer to the link for details: <https://superuser.com/questions/1153470/vt-x-is-not-available-but-is-enabled-in-bios>;
- If the issue still exists, possibly try using VMware instead of VirtualBox.

SAS Assessments

➤ Submission due:

Week 4 due on **Wednesday of Week 5 (08/04/2020 11:59pm AEST)**

Week 5 due on **Wednesday of Week 6 (15/04/2020 11:59pm AEST)**

Week 6 due on **Wednesday of Week 7 (22/04/2020 11:59pm AEST)**

Week 7 non-graded

SAS Assessments

➤ Marking criteria (2/2):

☐ For activity answer sheets less than or equal to 10 questions:

- 0 – not submitted or submit non-relevant results
- 1 – more than half, but all attempted
- 1.5 – more than 2, less than half
- 2 – less than 2 incorrect answer

☐ For activity answer sheets more than 10 questions:

- 0 – not submitted or submit non-relevant results
- 1 – more than half, but all attempted
- 1.5 – more than 4, less than half
- 2 – less than 4 incorrect answer

SAS Help

- Q&A for SAS
- Setup Instructions: Assessments → SAS Self-Training Content → Video Instructions for SAS Setup
- Demo

SAS Week 4 Activity Answer Sheet

➤ 10.01:

- ☐ PG_Ch10, page 15, slide 28;
- ☐ Program **p110d02**.

➤ 10.03:

- ☐ **Hint:** the keyword "descending" is placed before the variable to which it applies.


➤ 10.06:

- ☐ Program **p110d07**.

SAS Week 4 Activity Answer Sheet

➤ 10.07:

- ☐ PG_Ch10, page 62-63, slides 131-135;
- ☐ Program **p110d08**;
- ☐ 0 indicates that the data set did not contribute to the current observation;
- ☐ 1 indicates that the data set did contribute to the current observation.



IN= Data Set Option

The *IN= data set option* creates a variable that indicates whether the data set contributed to building the current observation.

MERGE SAS-data-set (IN=variable) ...

variable is a temporary numeric variable that has two possible values:

0	Indicates that the data set did not contribute to the current observation.
1	Indicates that the data set did contribute to the current observation.

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SAS Week 4 Activity Answer Sheet

➤ 11.05:

- ☐ PG_Ch11, page 31, slide 63;
- ☐ N Obs – the number of observations with each unique combination of class variables;
- ☐ N – the number of observations with nonmissing values of the analysis variable (or variables).

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Viewing the Output

Statistics are produced for each combination of values of the classification variables.

The MEANS Procedure							
Analysis Variable : Salary							
Gender	Country	N Obs	N	Mean	Std Dev	Minimum	Maximum
F	AU	27	27	27702.41	1728.23	25185.00	30890.00
	US	41	41	29460.98	8847.03	25390.00	83505.00
M	AU	36	36	32001.39	16592.45	25745.00	108255.00
	US	61	61	33336.15	29592.69	22710.00	243190.00

- N Obs – the number of observations with each unique combination of class variables
- N – the number of observations with nonmissing values of the analysis variable (or variables)

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SAS Week 4 Activity Answer Sheet

➤ 11.06:

❑ PG_Ch11, page 38, slide 78;

❑ Sample: Program **p111d11**;

❑ **Hint: not limit to this chapter,
can be any SAS base procedure.**

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NEXTROBS= Option

The *NEXTROBS=* option specifies the number of extreme observations to be displayed.

```
proc univariate data=orion.nonsales2
               nextrobs=3;
    var Salary;
run;
```

Partial PROC UNIVARIATE Output

The UNIVARIATE Procedure			
Variable: Salary			
Extreme Observations			
-----Lowest----		-----Highest----	
Value	Obs	Value	Obs
2401	20	207885	28
2650	13	268455	29
24025	25	433800	27

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p111d11

SAS Week 4 Activity Answer Sheet

➤ 11.07:

☐ PG_Ch11, page 46-47, slides 92-94;

☐ **Note:** “\” is not an error.

☐ 11.08:

☐ PG_Ch11, page 52, slide 106;

☐ Sample: Program **p111d15**.

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ODS Destinations Used with Excel

The following ODS destinations are used to create files that can be opened in Excel:

Destination	Type of File	Extension	Viewed In
CSVALL	Comma-Separated Value	.csv	Text Editor or Microsoft Excel
MSOFFICE2K	Hypertext Markup Language	.html	Microsoft Word or Microsoft Excel
TAGSETS. EXCELXP	Extensible Markup Language	.xml	Microsoft Excel

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SAS Set Up for Weeks 5 and 6

- SAS Self-Training Content → Video Instructions for SAS Setup → SAS Set Up for Weeks 5 and 6
- Demo

SAS Week 5 Activity Answer Sheet

➤ 2.03:

- ☐ Program **s102a02**;
- ☐ **Copying or rephrasing the log is not enough, please provide brief explanation on why this log is generated.**