MET MA 603: SAS Project Exam Help SAS Programming and https://powcoder.com Applications Add WeChat powcoder

The Output Statement

The Implicit Output Statement

By default, SAS executes each statement in a Data step in order, and then it writes the values of the current observation to the output dataset before executing the statements for the prevent projetion and Help

SAS writes the observations to the output dataset because there is an implicit output statement built within the Data step. The implicit output statement is executed only when the Data step doesn't contain an explicit output statement.

The Explicit Output Statement

The **Output** statement controls when SAS writes the current values of an observation to an output dataset.

```
set
output work.numbers;
run;
```

In the example, the output statement instructs SAS to write the current value of the observation to the dataset work.numbers. Note that this is exactly the way the implicit output statement functions – here, the implicit statement is simply made explicit.

Note that if the name of the output dataset is not included in the output statement that the result will be the same.

The Conditional Output Statement

The explicit output statement is used in situations where we need to control when observations are written to the output dataset (otherwise we can simply rely on the implicit output statement). This control is projety to make the dataset using logical operators. A Conditional Output statement writes observations to an topp updataset as on evaluating a logical statement.

A special case of the conditional output statement is the **Subset** statement, which is really just a short-hand version of the conditional output statement.

Output to Multiple Datasets

More than one dataset name can appear in the Data statement, thus instructing SAS to create multiple output datasets.

```
data odd_numberignmentnProject Exam Help
set mydata.integers;

if mod(Number, 2) https://powcoder.com work.odd_numbers;
work.even_numbers;
run; Add WeChat powcoder
```

Generally, when outputting to multiple datasets, a conditional output statement is used, such that observations are written to one or another of the output datasets based on a condition. Otherwise, all observations will be written to all output datasets, creating duplicate datasets.

The Output Statement within a Do Loop

Combining the Output statement with the Do Loop allows for a single observation to generate multiple observations in the output dataset.

```
odd_numberignment Project Exam Help
Number = 1 to 100;

output
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```

Practice

Use a single Data step to create 4 output datasets. The first dataset should contain the odd integers from 1 to 100, the second dataset should contain the even integers from 1 to 100. Similarly the third and fourth that as the should contain the integers even divisible by 3 and 4, respectively. Solve the problem above using a fine integers.sas7bdat dataset as an input, and b) without using an input dataset.

Readings

Textbook section 6.10, 6.11

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