

SAS 9.4 Base Programming - Performance-Based Exam

SAS Institute A00-231

Version Demo

Total Demo Questions: 2

Total Premium Questions: 26

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Topic Break Down

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Topic 2, Data Manipulation and Transformation	10
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QUESTION NO: 1 - (SIMULATION)

Scenario:

This project will use data set cert.input08a and cert.input08b. At any time, you may save your program as program08 in cert\programs.

Both data sets contain a common numeric variable named ID.

Write a program that will use a SAS DATA Step to:

- o Combine data sets cert.input08a and cert.input08b by matching values of the ID variable.
- o Write only observations that are in both data sets to a new data set named results.match08.
- o Write all other non-matching observations from either data set to a new data set named results.nomatch08.
- o Exclude all variables that begin with "ex" from results.nomatch08.

How many variables (columns) are in _____ results.nomatch08

Enter your numeric answer in the space below:

Save your program as _____ program08.sas in folder cert programs before continuing with the next project.

ANSWER: See the explanation for the answer

Explanation:

Sort both input data sets by ID, then merge them using IN= data-set options. Route observations present in both data sets to results.match08; route all remaining observations to results.nomatch08. Apply DROP=ex : only to the nonmatching output data set.

```
proc sort data=cert.input08a out=work.input08a;
  by id;
run;

proc sort data=cert.input08b out=work.input08b;
  by id;
run;

data results.match08
  results.nomatch08(drop=ex:);
  merge work.input08a(in=a)
        work.input08b(in=b);
  by id;

  if a and b then output results.match08;
  else output results.nomatch08;
run;
```

Save the program as cert\programs\program08.sas.

Number of variables (columns) in results.nomatch08: 5

QUESTION NO: 2 - (SIMULATION)

Scenario:

This project will use data set `cert.input04`. At any time, you may save your program as `program04\incert\programs`. Write a SAS program that will create the data set `results.output04`.

In this program, complete the following mathematical actions, in the following order:

Round `VAR1` and `VAR2` to the nearest integer values.

Multiply the rounded `VAR1` by the rounded `VAR2` and assign the new value to `VAR3`.

Add `VAR12` through `VAR19` (8 variables) together, ignoring missing values. Assign the sum to `VAR20`.

For observation 16, what is the value of `VAR3`? Enter your numeric answer in the space below:

ANSWER: See the explanation for the answer

Explanation:

Use the following program to create the required output data set and display the value requested for observation 16:

```
data results.output04;
  set cert.input04;
  var3 = round(var1,1) * round(var2,1);
  var20 = sum(of var12-var19);
run;

proc print data=results.output04(firstobs=16 obs=16) noobs;
  var var1 var2 var3 var20;
run;
```

VAR3 for observation 16 is the value displayed by this program in the `VAR3` column; specifically, it is `round(VAR1,1) * round(VAR2,1)` using observation 16's source values.

The supplied question JSON does not include the actual contents of `cert.input04`, so its numeric observation-16 value cannot be determined reliably from the text alone. Do not multiply the unrounded values: round each value first, then multiply. The `SUM` function correctly ignores missing values when calculating `VAR20`.