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SAS 9.4 Base Programming - Performance-Based Exam

SAS Institute A00-231

Version Demo

Total Demo Questions: 2

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Topic Break Down

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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 setcert.input04. At any time, you may save your program asprogram04incert\programs. Write a SAS program that will create the data setresults.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 VAR1b y 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 ofVAR3? 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`.