Run the program L3_E1.sas

Which of the following is true?

- a. The program executes, and applies both WHERE conditions successfully.
- b. The program fails and an error message is written to the log.
- c. The program executes, but only the first WHERE condition is applied.
- d. The program executes, but only the second WHERE condition is applied.



Exercise 1 solution

Which of the following is true?

- a. The program executes, and applies both WHERE conditions successfully.
- b. The program fails and an error message is written to the log.
- c. The program executes, but only the first WHERE condition is applied.
- d. The program executes, but only the second WHERE condition is applied.

```
182 proc print data=orion.sales;
183 where Country='AU';
184 where Salary<30000;
NOTE: WHERE clause has been replaced.
185 run;
NOTE: There were 134 observations read from the data set ORION.SALES.
WHERE Salary<30000;
```

Which WHERE statement correctly subsets the numeric values for May, June, or July and missing character names?

```
• a. where Month in (5-7) and Names=.;
```

```
• b. where Month in (5,6,7) and Names=' ';
```

```
• C. where Month in ('5','6','7') and Names='.';
```



Which WHERE statement correctly subsets the numeric values for May, June, or July and missing character names?

```
• a. where Month in (5-7) and Names=.;
```

```
where Month in (5,6,7) and Names=' ';
```

```
• C. where Month in ('5','6','7') and Names='.';
```



Open L3_D5.sas. Change WHERE SAME AND to WHERE ALSO. Submit the program and view the log.

What message is written to the log?



Exercise 3 solution

Open **L3_D5.sas**. Change WHERE SAME AND to WHERE ALSO. Submit the program and view the log.

What message is written to the log?

```
27  proc print data=orion.sales;
28    where Country='AU' and Salary<30000;
29    where also Gender='F';
NOTE: WHERE clause has been augmented.
30    var First_Name Last_Name Gender Salary Country;
31    run;
NOTE: There were 23 observations read from the data set ORION.SALES.
    WHERE (Country='AU') and (Gender='F') and (Salary<30000);</pre>
```

WHERE ALSO results in the same message: WHERE clause has been augmented.



Which WHERE statement returns all the observations that have a first name starting with the letter M for the given values?

a. where Name like		M_';
--------------------	--	------



d.	where	Name	like	18,	<u>M_</u>	۱ .
----	-------	------	------	-----	-----------	-----

Name

Elvish, Irenie

Ngan, Christina

Hotstone, Kimiko

Daymond, Lucian

Hofmeister, Fong

Denny, Satyakam

Clarkson, Sharryn

Kletschkus, Monica

last name, first name



Exercise 4 solution

Which WHERE statement returns all the observations that have a first name starting with the letter M for the given values?

a. where Name like '_, M_';

b. where Name like '%, M%';

C. where Name like '_, M%';

d. where Name like '%, M_';

|--|

Elvish, Irenie

Ngan, Christina

Hotstone, Kimiko

Daymond, Lucian

Hofmeister, Fong

Denny, Satyakam

Clarkson, Sharryn

Kletschkus, Monica

last name, first name



Which step sorts the observations in a SAS data set and overwrites the same data set?

```
b. proc sort data=orion.EmpsAU out=EmpsAU;
by First;
run;
```

```
proc sort data=work.EmpsAU;

by First;
run;
```



Which step sorts the observations in a SAS data set and overwrites the same data set?

```
a. proc sort data=work.EmpsAU out=work.sorted; by First; run;
```



```
proc sort data=work.EmpsAU;
    by First;
run;
```

•Open and submit **L3_E6.sas**. View the log. Why did the program fail?



Exercise 6 solution

Open and submit **L3_E6.sas**. View the log. Why did the program fail?

The input data set was not sorted by Gender.

```
188
     proc sort data=orion.sales
189
               out=work.sorted:
190
         by Country Gender;
191
     run;
NOTE: There were 165 observations read from the data set ORION. SALES.
NOTE: The data set WORK. SORTED has 165 observations and 9 variables.
192
193
     proc print data=work.sorted;
194
         by Gender;
195
     run;
ERROR: Data set WORK.SORTED is not sorted in ascending sequence. The current
       BY group has Gender = M and the next BY group has Gender = F.
NOTE: The SAS System stopped processing this step because of errors.
NOTE: There were 64 observations read from the data set WORK.SORTED.
```

Exercise 7 – code run sequentially

PROC PRINT Code

Resultant Title(s)

```
title1 'The First Line';
title2 'The Second Line';
proc print data=orion.sales;
run;
title2 'The Next Line';
proc print data=orion.sales;
run;
title 'The Top Line';
proc print data=orion.sales;
run;
title3 'The Third Line';
proc print data=orion.sales;
run;
title;
proc print data=orion.sales;
run;
```

Exercise 7 solution

PROC PRINT Code

Resultant Title(s)

<pre>title1 'The First Line'; title2 'The Second Line'; proc print data=orion.sales; run;</pre>	The First Line The Second Line	
<pre>title2 'The Next Line'; proc print data=orion.sales; run;</pre>	The First Line The Next Line Replaces title2	
<pre>title 'The Top Line'; proc print data=orion.sales; run;</pre>	The Top Line Cancels all and creates new title1	
<pre>title3 'The Third Line'; proc print data=orion.sales; run;</pre>	The Top Line Creates new title3 The Third Line	
<pre>title; proc print data=orion.sales; run;</pre>	Cancels all	

Which footnote or footnotes appear in the second procedure output?

```
• a. Non Sales Employees C.
```

Non Sales Employees Confidential

• b. Orion Star
Non Sales Employees d.

Orion Star Non Sales Employees Confidential

```
footnote1 'Orion Star';
footnote2 'Sales Employees';
footnote3 'Confidential';
proc print data=orion.sales;
run;

footnote2 'Non Sales Employees';
proc print data=orion.nonsales;
run;
```



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Exercise 8 solution

Which footnote or footnotes appear in the second procedure output?

• a. Non Sales Employees C.

Non Sales Employees Confidential

.b

Orion Star Non Sales Employees

d.

Orion Star
Non Sales Employees
Confidential

```
footnote1 'Orion Star';
footnote2 'Sales Employees';
footnote3 'Confidential';
proc print data=orion.sales;
run;

footnote2 'Non Sales Employees';
proc print data=orion.nonsales;
run;
```

Replaces footnote2, cancels footnote3, leaves footnote1 unchanged

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