

# SAS Institute

## A00-232

**SAS Certified Professional - Advanced Programming Using  
SAS 9.4**

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# Latest Version: 6.0

## Question: 1

Given the following SQL procedure output:

```
Table Physical Obs % Deleted  
EMPLOYEE_ADDRESSES 424 5.0%  
EMPLOYEE_PAYROLL 424 5.0%
```

Which SQL query will produce a report for tables in the ORION library which have had at least 5% of their physical rows deleted, as shown above?

Response:

- A. select MEMNAME 'Table', NOBS 'Physical Obs' ,  
DELOBS/NOBS '% Deleted' format=percent6.1  
from dictionary.tables  
where LIBNAME='ORION' AND DELOBS/NOBS >= .05;
- B. select Table\_Name, Num\_Rows 'Physical Obs'  
, Deleted\_Rows/Num\_Rows '% Deleted'  
format=percent6.1 from dictionary.DBA\_TABLES where  
TABLESPACE\_NAME='ORION' AND Deleted\_Rows/Num\_Rows  
>= .05;
- C. select MEMNAME 'Table', NLOBS 'Physical Obs'  
, DELOBS/NLOBS LABEL='% Deleted' format=percent6.1  
from dictionary.tables  
where LIBNAME='ORION' AND DELOBS/NLOBS >= .05;
- D. select MEMNAME 'Table', NOBS 'Physical Obs'  
, DELOBS/NOBS LABEL='% Deleted' format=percent6.1  
from dictionary.members  
where LIBNAME='ORION' AND DELOBS/NOBS >= .05;

**Answer: A**

## Question: 2

The SAS data set SASDATA.SALES has a simple index on the variable DATE and a variable named REVENUE with no index. In which one of the following SAS programs is the DATE index considered for use?

Response:

- A. proc print data = sasdata.sales;  
by date;  
run;
- B. proc print data = sasdata.sales;  
where month(date) = 3;

```
run;  
C. data march;  
setsasdata.sales;  
if '01mar2002'd < date < '31mar2002'd;  
run;  
D. data march;  
setsasdata.sales;  
where date < '31mar2002'd or revenue > 50000;  
run;
```

**Answer: A**

### Question: 3

A local permanent data set has the following characteristics:

- 80 character variables, length 200, storing 28 bytes of non-repeating characters
- 120 numeric variables, length 8, 14 digits
- 4000 observations

What is the best way to reduce the storage size of this data set?

Response:

- A. Compress the data set with character compression
- B. Reduce length of character variables to 28 bytes
- C. Compress the data set with binary compression
- D. Reduce length of character variables to 6 bytes

**Answer: B**

### Question: 4

Open a new programming window to create SQL01.sas in c:\cert\programs.

Write an SQL query that will:

- Create output data set work.SQL01 using sashelp.cars as input.
- Compute the average MPG\_City for each group of Make. Name the calculated variable AvgCityMPG.
- The output data should have 2 columns, Make and AvgCityMPG.

Run your program and troubleshoot as necessary. When you are finished with the project:

1. Ensure that you have saved your program as SQL01.sas in c:\cert\programs.
2. From the score.sas program, call the scoreit macro using SQL01 as the parameter: %scoreit(SQL01).

What is the value for Response in the SAS log?

Solution: An SQL query with a group by clause will be written. The AvgCityMPG for MAKE=MINI will be 26.5.

Determine whether the given solution is correct?

Response:

- A. Correct
- B. Incorrect

**Answer: A**

### Question: 5

The following SAS program is submitted:

options \_\_\_\_\_;

%abc(work.look,Hello,There);

In the text box above, complete the options statement that will produce the following log messages:

M\*\*\*\*\* (ABC): title1 "Hello" ;

M\*\*\*\*\* (ABC): title2 "There" ;

M\*\*\*\*\* (ABC): proc print data=work.look ;

M\*\*\*\*\* (ABC): run ;

Solution: mprint

Determine whether the given solution is correct?

Response:

- A. Correct
- B. Incorrect

**Answer: A**

### Question: 6

Which statement correctly describes a SAS in-line view?

Response:

- A. A SAS in-line view is a subquery in the HAVING clause.
- B. A SAS in-line view is used to populate a SAS array from a SAS data set.
- C. A SAS in-line view is a SAS data set that contains a compiled DATA step.
- D. A SAS in-line view is a temporary table that exists only during the SQL procedure query execution.

**Answer: D**

### Question: 7

Which statement creates global macro variables and assigns null values to the variables?

Response:

- A. %ADD

- B. %GLOBAL
- C. %LET
- D. %NULL

**Answer: B**

### Question: 8

Open a new programming window to create ACT01.sas in c:\cert\programs.

Write a SAS program that will:

- Create output data set work.ACT01 using sashelp.pricedata as input.
- Use an array to increase the values of the price1 through price17 variables by 10%.

Run your program and troubleshoot as necessary. When you are finished with the project:

1. Ensure that you have saved your program as ACT01.sas in c:\cert\programs.
2. From the score.sas program, call the scoreit macro using ACT01 as the parameter: %scoreit(ACT01).

What is the value for Response in the SAS log?

Solution: All price values for all price1-through price17 will be increased by 10%. For example, price2 in observation 5 will now be 126.50. Arrays and do loops would be used in the program.

Determine whether the given solution is correct?

Response:

- A. Correct
- B. Incorrect

**Answer: A**

### Question: 9

The following SAS program is submitted:

```
%macro mysum(n);  
%if &n > 1 %then %eval(&n + %mysum(%eval(&n-1)));  
%else &n;  
%mend;  
%put %mysum(4);
```

Which output is written to the log?

Response:

- A. 10
- B. 4+3+2+1
- C. 7
- D. A character operand was found in the %EVAL function or %IF condition where a numeric operand is required.

**Answer: A**

### Question: 10

Open a new programming window to create MAC01.sas in c:\cert\programs. Write a DATA step that reads only the first observation of the sashelp.cars data set and stores the value of the Make variable in a macro variable named CarMaker. The macro variable must be defined from within the DATA Step.

Run your program and troubleshoot as necessary. When you are finished with the project:

1. Ensure that you have saved your program as MAC01.sas in c:\cert\programs.
2. From the score.sas program, call the scoreit macro using MAC01 as the parameter: %scoreit(MAC01).

What is the value for Response in the SAS log?

Solution: The CarMaker macro variable will have a value of Acura. The program will include a symputx routine.

Determine whether the given solution is correct?

Response:

- A. Correct
- B. Incorrect

**Answer: A**

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