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SAS A00-232

SAS ADVANCED PROGRAMMING CERTIFICATION QUESTIONS & ANSWERS

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A00-232

SAS Advanced Programming Professional

20-30 Questions Exam – 725 / 1000 Cut Score – Duration of 150 minutes

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Discover More about the A00-232 Certification

Are you interested in passing the SAS A00-232 exam? First discover, who benefits from the A00-232 certification. The A00-232 is suitable for a candidate if he wants to learn about Programming. Passing the A00-232 exam earns you the SAS Advanced Programming Professional title.

While preparing for the A00-232 exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The A00-232 PDF contains some of the most valuable preparation tips and the details and instant access to useful **A00-232 study materials just at one click.**

A00-232 SAS Advanced Programming Certification Details:

Exam Name	SAS Certified Professional - Advanced Programming Using SAS 9.4
Exam Code	A00-232
Exam Duration	150 minutes
Exam Questions	20-30 (10-15 programming projects and 10-15 standard exam questions)
Passing Score	725 / 1000
Exam Price	$180 (USD)
Books / Training	**SAS Programming 3: Advanced Techniques** **SAS Macro Language 1: Essentials** **SAS SQL 1: Essentials** **SAS Certified Professional Prep Guide: Advanced Programming Using SAS 9.4**
Exam Registration	**Pearson VUE**
Sample Questions	**SAS Advanced Programming Certification Sample Question**
Practice Exam	**SAS Advanced Programming Certification Practice Exam**

A00-232 Syllabus:

Objective	Details
Accessing Data Using SQL	
Generate detail reports by working with a single table, joining tables, or using set operators in SQL	- Use PROC SQL to perform SQL queries. - Select columns in a table with a SELECT statement and FROM clause. - Create a table from a query result set. - Create new calculated columns. - Assign an alias with the AS keyword. - Use case logic to select values for a column. - Retrieve rows that satisfy a condition with a WHERE clause. - Subset data by calculated columns with the CALCULATED keyword. - Join tables - inner joins, full joins (coalesce function), right joins, left joins, cross joins. - Combine tables using set operators - union, outer join, except, intersect. - Sort data with an ORDER BY clause. - Assign labels and formats to columns.
Generate summary reports by working with a single table, joining tables, or using set operators in the SQL.	- Summarize data across and down columns using summary functions (AVG, COUNT, MAX, MIN, SUM). - Group data using GROUP BY clause. - Filter grouped data using HAVING clause. - Eliminate duplicate values with the DISTINCT keyword.
Construct sub-queries and in-line views within an SQL procedure step.	- Subset data by using non-correlated subqueries. - Reference an in-line view with other views or tables (multiple tables).
Use special features of the SQL procedure.	- Use SAS data set options with PROC SQL (KEEP=, DROP=, RENAME=, OBS=). - Use PROC SQL invocation options (INOBS=, OUTOBS=. NOPRINT, NUMBER) - Use PROC SQL with the SAS Macro Facility to create macro variables with the INTO keyword. - Use SAS functions (SCAN, SUBSTR, LENGTH). - Access SAS system information by using DICTIONARY tables (members, tables, columns)
Macro Processing	
Create and use user-defined and automatic macro variables	- Define and use macro variables. - Use macro variable name delimiter. (.) - Use INTO clause of the SELECT statement in SQL.

Objective	Details
within the SAS Macro Language.	- Use the SYMPUTX routine in a DATA Step. - Control variable scope with: • %GLOBAL statement • %LOCAL statement • SYMPUTX scope parameter
Automate programs by defining and calling macros using the SAS Macro Language.	- Define a macro using the %MACRO and %MEND statements. - Insert comments into macros. - Pass Information into a macro using parameters. - Generate SAS Code conditionally by using the %IF-%THEN-%ELSE macro statements or iterative %DO statements.
Use macro functions.	- Use macro character functions. (%SCAN, %SUBSTR, %INDEX, %UPCASE) - Use macro quoting functions. (%NRSTR, %STR) - Use macro evaluation functions. (%EVAL) - Use %SYSFUNC to execute DATA step functions within the SAS Macro Language.
Debug macros.	- Trace the flow of execution with the MLOGIC option. - Examine the generated SAS statements with the MPRINT option. - Examine macro variable resolution with the SYMBOLGEN option. - Use the %PUT statement to print information to the log.
Create data-driven programs using SAS Macro Language.	- Create a series of macro variables. - Create a macro variable containing a delimited list of values using PROC SQL. - Use indirect reference to macro variables. (&&, etc) - Generate repetitive macro calls using: • the %DO loop, • SQL query with SELECT INTO • DATA Step with DOSUBL or the EXECUTE routine function.
Advanced Techniques	
Process data using 1 and 2 dimensional arrays.	- Define and use character arrays. - Define and use numeric arrays. - Create variables with arrays. - Reference arrays within a DO loop. - Specify the array dimension with the DIM function. - Define arrays as temporary arrays. - Load initial values for an array from a SAS data set.

Objective	Details
Process data using hash objects	- Declare hash and hash iterator objects • Dataset argument • Ordered argument • Multidata argument - Use hash object methods • definekey() • definedata() • definedone() • find() • add() • output() - Use hash iterator object methods • first() • next() • last() • prev() - Use hash objects as lookup tables. - Use hash objects to create sorted data sets. - Use hash iterator objects to access data in forward or reverse key order.
Use SAS utility procedures	- Specify a template using the PICTURE statement within the FORMAT Procedure • Specify templates for date, time, and datetime values using directives. • Specify templates for numeric values using digit selectors. - Create custom functions with the FCMP procedure • Create character and numeric custom functions with single or multiple arguments. • Create custom functions based on conditional processing. • Use custom functions with the global option CMPLIB=.

Broaden Your Knowledge with SAS A00-232 Sample Questions:

Question: 1

You write the following note to the SAS log:

NOTE: The macro LOCATION completed compilation

without errors

6 instructions 172 bytes.

Which SAS System options produces this note?

Select one:

a) MERROR=ON
b) MSGLEVEL=I
c) MAUTOSOURCE
d) MCOMPILENOTE=ALL

Answer: d

Question: 2

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

a) %ADD
b) %GLOBAL
c) %LET
d) %NULL

Answer: b

Question: 3

You submit the following SAS statement:

%let idcode=Prod567;

Which SAS statement stores the value 567 in the macro variable codenum?

Select one:

a) %let codenum=%substr(&idcode,length(&idcode)-2);
b) %let codenum=%substr(&idcode,length(&idcode)-3);
c) %let codenum=%substr(&idcode,%length(&idcode)-2);
d) %let codenum=%substr(&idcode,%length(&idcode)-3);

Answer: c

Question: 4

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?

a) Correct
b) Incorrect

Answer: a

Question: 5

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?

a) Correct
b) Incorrect

Answer: a

Question: 6

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?

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: 7

Which is a characteristic of a hash object in a SAS DATA step?

Select one:

a) The hash object requires the data to be sorted.
b) The hash object requires the data to be indexed.
c) The data contained in the hash object can only be loaded from a SAS data set.
d) The hash object can contain character or numeric data or it can contain a combination of both character and numeric data.

Answer: d

Question: 8

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?

a) Correct
b) Incorrect

Answer: a

Question: 9

Which statement correctly describes a SAS in-line view?

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: 10

Select the correct value for x.

%let x=%substr("ABCD", 2, 1);

Select one:

a) A
b) B
c) C
d) D

Answer: a

Avail the Study Guide to Pass A00-232 SAS Advanced Programming Exam:

- Find out about the A00-232 syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the **A00-232 syllabus**, it is time to plan for studying and covering the syllabus topics from the core. Chalk out the best plan for yourself to cover each part of the syllabus in a hassle-free manner.
- A study schedule helps you to stay calm throughout your exam preparation. It should contain your materials and thoughts like study hours, number of topics for daily studying mentioned on it. The best bet to clear the exam is to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the A00-232 training. Joining the SAS provided training for A00-232 exam helps a candidate to strengthen his practical knowledge base from the certification.

- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the **A00-232 sample questions** and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. A00-232 practice tests would guide you on your strengths and weaknesses regarding the syllabus topics. Through rigorous practicing, you can improve the weaker sections too. Learn well about time management during exam and become confident gradually with practice tests.

Career Benefits:

Passing the A00-232 exam, helps a candidate to prosper highly in his career. Having the certification on the resume adds to the candidate's benefit and helps to get the best opportunities.