SAS A00-232

SAS ADVANCED PROGRAMMING CERTIFICATION QUESTIONS & ANSWERS

Exam Summary – Syllabus – Questions

A00-232

SAS Advanced Programming Professional
20-30 Questions Exam – 725 / 1000 Cut Score – Duration of 150 minutes

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Know Your A00-232 Certification Well:

The A00-232 is best suitable for candidates who want to gain knowledge in the SAS Programming. Before you start your A00-232 preparation you may struggle to get all the crucial SAS Advanced Programming materials like A00-232 syllabus, sample questions, study guide.

But don't worry the A00-232 PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the A00-232 syllabus?
- How many questions are there in the A00-232 exam?
- Which Practice test would help me to pass the A00-232 exam at the first attempt?

Passing the A00-232 exam makes you SAS Advanced Programming Professional. Having the SAS Advanced Programming certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

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	- Define and use macro variables. - Use macro variable name delimiter. (.) - Use INTO clause of the SELECT statement in SQL.

Objective	Details
variables 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=.

SAS A00-232 Sample Questions:

Question: 1

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: 2

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: 3

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: 4

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: 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?

a) Correct
b) Incorrect

Answer: a

Question: 6

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

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

Answer: b

Question: 7

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: 8

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: 9

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: 10

Select the correct value for x.

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

Select one:

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

Answer: a

Study Guide to Crack SAS Advanced Programming A00-232 Exam:

- Getting details of the A00-232 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the A00-232 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the SAS provided training for A00-232 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the A00-232 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on A00-232 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for A00-232 Certification

Make AnalyticsExam.Com your best friend during your SAS Certified Professional - Advanced Programming Using SAS 9.4 exam preparation. We provide authentic practice tests for the A00-232 exam. Experts design these online practice tests, so we can offer you an exclusive experience of taking the actual A00-232 exam. We guarantee you 100% success in your first exam attempt if you continue practicing regularly. Don't bother if you don't get 100% marks in initial practice exam attempts. Just utilize the result section to know your strengths and weaknesses and prepare according to that until you get 100% with our practice tests. Our evaluation makes you confident, and you can score high in the A00-232 exam.

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