

SAS BASE EXAM CERTIFICATION PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	16

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. What is the maximum number of characters allowed for a label in SAS?**
 - A. 128 characters;
 - B. 256 characters;
 - C. 512 characters;
 - D. 64 characters;
- 2. What does the DROP statement do in a DATA step?**
 - A. It changes the names of specified variables
 - B. It removes specified variables from the dataset
 - C. It filters observations from the dataset
 - D. It creates a new variable
- 3. What is the purpose of the WHERE statement in PROC SQL?**
 - A. To join multiple datasets
 - B. To filter rows based on specified conditions
 - C. To sort the results of a query
 - D. To summarize data
- 4. What does the OUT= option in PROC SORT do?**
 - A. Specifies the output dataset name
 - B. Indicates the sorting method
 - C. Defines the criteria for sorting
 - D. Determines the sort order
- 5. Which PROC step would you use to view the contents of a library?**
 - A. PROC PRINT
 - B. PROC CONTENTS
 - C. PROC VIEW
 - D. PROC SUMMARY
- 6. Using PROC SGPanel, what is the effect of the "by" statement?**
 - A. It suppresses the output
 - B. It divides the data into separate panels based on categorical variables
 - C. It sorts the data before processing
 - D. It applies filters to the data

- 7. What is the primary purpose of the DATA step in SAS?**
- A. To create and manipulate datasets
 - B. To generate graphical representations of data
 - C. To execute statistical analyses
 - D. To store data in a SAS library
- 8. Which function is used to join two strings with a specified delimiter and removes blanks?**
- A. CATS
 - B. CATX
 - C. CAT
 - D. CONCAT
- 9. What function can be used to calculate the mean of a variable?**
- A. SUM function
 - B. MEAN function
 - C. AVG function
 - D. MEDIAN function
- 10. What is the output syntax for summing variables using a variable list in SAS?**
- A. Total = sum(of qtr1, qtr2, qtr3, qtr4)
 - B. Total = sum(qtr1 to qtr4)
 - C. Total = sum(of qtr1 - qtr4)
 - D. Total = sum(qtr1 + qtr2 + qtr3 + qtr4)

Answers

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1. B
2. B
3. B
4. A
5. B
6. B
7. A
8. B
9. B
10. C

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Explanations

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1. What is the maximum number of characters allowed for a label in SAS?

- A. 128 characters;
- B. 256 characters;**
- C. 512 characters;
- D. 64 characters;

In SAS, the maximum number of characters allowed for a label is indeed 256 characters. Labels in SAS are used to provide a more descriptive name for variables, making output more readable and user-friendly. They can include spaces and special characters, which adds to their flexibility. Using a maximum of 256 characters allows for detailed descriptions that can make it easier for users to understand the content of a data set. This limit indicates the importance of having comprehensible labels, especially in larger datasets where variable names alone may not provide sufficient context. The other options reflect incorrect limits that do not align with SAS specifications for label lengths. Understanding the correct maximum limit enhances one's ability to create well-documented and user-friendly SAS programs.

2. What does the DROP statement do in a DATA step?

- A. It changes the names of specified variables
- B. It removes specified variables from the dataset**
- C. It filters observations from the dataset
- D. It creates a new variable

The DROP statement in a DATA step is specifically designed to remove specified variables from the dataset being created or modified. When you include the DROP statement and list the variables you want to exclude, those variables will not appear in the output dataset. This is particularly useful when you want to streamline your dataset by eliminating unneeded variables that may not be relevant to the analysis or reporting, thereby simplifying subsequent data handling. The other choices involve actions that the DROP statement does not perform. The first option refers to changing variable names, which is done using the RENAME statement, not the DROP statement. The third option about filtering observations pertains to the WHERE statement or subsetting techniques, not variable removal. The last option mentions the creation of new variables, which is achieved through assignment statements within the DATA step. Thus, the clarity and purpose of the DROP statement is in its ability to remove specific variables from the dataset.

3. What is the purpose of the WHERE statement in PROC SQL?

- A. To join multiple datasets
- B. To filter rows based on specified conditions**
- C. To sort the results of a query
- D. To summarize data

The purpose of the WHERE statement in PROC SQL is to filter rows based on specified conditions. When using a WHERE clause, you can specify criteria that must be met for the rows to be included in the results of your query. This allows for targeted data retrieval, helping to refine the dataset to only those observations that are relevant to the specific analysis or report. By applying conditions in the WHERE statement, users can focus on specific values, ranges, or attributes of the data, thus making data analysis more effective. For instance, if you are working with a dataset of employee records and only want to retrieve those who work in a particular department or have salaries above a certain threshold, using a WHERE statement would allow you to achieve that. In contrast, the other options illustrate different functions that do not align with the primary role of the WHERE statement. Joining multiple datasets pertains to combining data from different sources, sorting the results involves organizing the data in a certain order, and summarizing data typically pertains to aggregating values. Each of these activities can be performed in PROC SQL, but they utilize other statements or procedures rather than the WHERE statement.

4. What does the OUT= option in PROC SORT do?

- A. Specifies the output dataset name**
- B. Indicates the sorting method
- C. Defines the criteria for sorting
- D. Determines the sort order

The OUT= option in the PROC SORT statement is used specifically to name the output dataset that will be created as a result of the sorting operation. When you specify OUT= followed by a dataset name, PROC SORT outputs the sorted data into that specified dataset rather than overwriting the original dataset. This functionality is particularly useful when you need to keep the original dataset intact while also obtaining a new, sorted version. For instance, if you have a dataset named "mydata" and you want to create a sorted version of it, you might use the syntax like this: ```sas proc sort data=mydata out=sorted_data; by variable_name; run;``` In this case, "sorted_data" will contain the sorted records according to "variable_name", while "mydata" remains unchanged. This allows for flexibility in the data manipulation process. The other options relate to the characteristics of sorting but do not address the specific function of the OUT= option in naming the output dataset.

5. Which PROC step would you use to view the contents of a library?

- A. PROC PRINT
- B. PROC CONTENTS**
- C. PROC VIEW
- D. PROC SUMMARY

When you want to view the contents of a library in SAS, the appropriate procedure to use is PROC CONTENTS. This procedure provides a detailed overview of the datasets contained within the specified library, including information about the variables, data types, and attributes of each dataset. PROC CONTENTS generates a report that helps users understand the structure of their data, including the number of observations and variables for each dataset in the library, making it an essential tool for data exploration and management. It also allows users to specify certain options to tailor the output to their needs, such as limiting the results to certain datasets or displaying specific variables. Other procedures mentioned, such as PROC PRINT, are designed for displaying the data within a dataset, and PROC SUMMARY is used for summarizing data rather than giving a comprehensive overview of the library's contents. PROC VIEW is not a standard or recognized PROC in SAS for this purpose. Thus, PROC CONTENTS stands out as the best choice for reviewing the structure and metadata of datasets within a library.

6. Using PROC SGPanel, what is the effect of the "by" statement?

- A. It suppresses the output
- B. It divides the data into separate panels based on categorical variables**
- C. It sorts the data before processing
- D. It applies filters to the data

The "by" statement in PROC SGPanel is specifically designed to divide the data into separate panels based on the levels of the categorical variables provided. When this statement is utilized, it creates individual panels for each level of the specified variable, allowing for a clear and comparative visualization of data across different categories. This functionality is particularly useful for presenting data in a way that highlights variations or trends within the subsets of the data. For instance, if you have a dataset categorized by "Region" and you're using the "by" statement with this variable, PROC SGPanel will generate multiple panels, each representing a specific region. This facilitates the analysis of how certain metrics differ from one region to another. In contrast, the other choices pertain to different operations that do not align with the functionality of the "by" statement in PROC SGPanel. While sorting and filtering can be part of data preparation in SAS, they are not the direct outcome of utilizing the "by" statement within this procedure.

7. What is the primary purpose of the DATA step in SAS?

- A. To create and manipulate datasets**
- B. To generate graphical representations of data
- C. To execute statistical analyses
- D. To store data in a SAS library

The primary purpose of the DATA step in SAS is to create and manipulate datasets. This step is fundamental within the SAS programming environment, as it allows users to read raw data, perform data transformations, create new variables, subset data, and apply various data manipulation techniques. During the DATA step, programmers can also ensure data integrity by validating data entries, merging datasets, and generating derived datasets from existing ones. Overall, the DATA step is where most of the dataset management and processing occur, affirming its central role in the data analysis pipeline using SAS. Graphical representations of data and executing statistical analyses are typically done in other parts of SAS, such as the PROC steps. Storing data in a SAS library is a specific action that may happen after a DATA step but is not the primary function of that step itself.

8. Which function is used to join two strings with a specified delimiter and removes blanks?

- A. CATS
- B. CATX**
- C. CAT
- D. CONCAT

The function that is used to join two strings with a specified delimiter while also removing any leading and trailing blanks from both strings is the CATX function. This function is particularly useful when you need a clean concatenation, where the output should not include any extraneous spaces, which can often be the case when directly concatenating strings. When using CATX, you provide the delimiter as the first argument followed by the strings you want to join. The function will effectively trim any unnecessary spaces from the strings and insert the specified delimiter between them. For example, if you have two strings with extra spaces, CATX will clean those up and produce a neatly formatted single string. Other functions like CATS and CAT don't serve the exact purpose since CATS combines strings while removing spaces but doesn't allow specifying a delimiter, and CAT simply concatenates strings without removing any spaces. CONCAT is also not suited for this task as it combines strings without space removal or additional delimiters. Hence, CATX is the function that meets the criteria outlined in the question.

9. What function can be used to calculate the mean of a variable?

- A. SUM function
- B. MEAN function**
- C. AVG function
- D. MEDIAN function

The MEAN function is specifically designed to calculate the average value of a variable in SAS. When you use this function, it automatically sums up all the values of the specified variable and divides that total by the number of non-missing values. This results in the arithmetic mean, which is a common measure of central tendency. In contrast, while the SUM function can add values together, it does not calculate the average. The AVG function is not a recognized function specifically in SAS, which is likely why it is not the correct choice. Lastly, the MEDIAN function calculates the middle value of a dataset when it is ordered, rather than the mean. Hence, the MEAN function is the appropriate choice for determining the average value of a variable in SAS.

10. What is the output syntax for summing variables using a variable list in SAS?

- A. Total = sum(of qtr1, qtr2, qtr3, qtr4)
- B. Total = sum(qtr1 to qtr4)
- C. Total = sum(of qtr1 - qtr4)
- D. Total = sum(qtr1 + qtr2 + qtr3 + qtr4)

The correct syntax for summing variables using a variable list in SAS is designed to efficiently specify a range of variables. In this case, using "of qtr1 - qtr4" is the proper way to reference a set of contiguous variables. This syntax not only succinctly signifies the variables from qtr1 through qtr4 but also clearly instructs SAS to treat them as a collective entity when performing the sum operation. This approach leverages SAS's capability to handle variable ranges, which is particularly useful when there are many variables that follow a sequential naming pattern. The "of" keyword, combined with the dash to indicate a range, allows for cleaner and more manageable code. In contrast, other choices involve either incorrect use of syntax or do not adhere to the concise conventions SAS offers for handling multiple variables. Specific references to individual variables or using the incorrect method of summation would produce errors or not yield the expected results. The choice that employs "of qtr1 - qtr4" aligns with SAS's syntax and best practices for summing a sequence of variables effectively.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://sasbase.examzify.com>

We wish you the very best on your exam journey. You've got this!

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