

# Valid SPLK-1004 Exam Forum | SPLK-1004 Exam Quizzes

**Society of Engineering Students(SOES)**  
School of Engineering  
Far Western University  
Mahendranagar, Kanchanpur  
Mock Test-2082

F.M: 100  
Time: 2 hrs.

**Attempt all the questions.**

Read the following questions and tick the correct option from a, b, c, or d in the paper provided. Each question carries 1 (one) mark.

1. Let  $A = \{x \in \mathbb{R} : |x - 2| < 3\}$  and  $B = \{x \in \mathbb{R} : x^2 - 4x + 3 \leq 0\}$ . The set  $A \cap B$  equals:  
(a)  $(-\infty, -1)$  (b)  $(-1, 5) \cap [1, 3]$  (c)  $[-1, 5] \cap [1, 3]$  (d)  $(-1, 5) \cap (1, 3)$
2. If  $p : "x > 1"$  and  $q : "x^2 > 1"$ , which statement is a tautology?  
(a)  $p \rightarrow q$  (b)  $q \rightarrow p$  (c)  $p \leftrightarrow q$  (d)  $\neg p \vee q$
3. For  $f(x) = \sqrt{1 + \sqrt{1 + x}}$ , the domain is:  
(a)  $[0, \infty)$  (b)  $[-1, \infty)$  (c)  $[-1, \infty)$  with  $x \neq 0$  (d)  $[-1, \infty)$  and  $x \geq -1$
4. If  $f \circ g = \text{id}$  on  $\mathbb{R}$  and  $g$  is not injective, which is true?  
(a)  $f$  injective (b)  $f$  surjective (c)  $g$  surjective (d)  $f$  not defined
5. Let  $A = \begin{pmatrix} 1 & 2 & 3 \\ 0 & 1 & 4 \\ 0 & 0 & k \end{pmatrix}$ . For which  $k$  is  $A^{-1}$  undefined?  
(a)  $-1$  (b)  $0$  (c)  $1$  (d) any real  $k$
6. If  $A$  and  $B$  are  $2 \times 2$  with  $\det A = 3$ ,  $\det B = -2$ , then  $\det(2A^{-1}B^T) =$   
(a)  $-\frac{4}{3}$  (b)  $-\frac{8}{3}$  (c)  $\frac{-1}{3}$  (d)  $\frac{-2}{3}$
7. Complex number  $z$  satisfies  $|z - 2| = |z + 2|$ . The locus is:  
(a) real axis (b) imaginary axis (c) circle  $|z| = 2$  (d) line  $\Re(z) = 0$
8. If  $z = \cos \theta + i \sin \theta$ , then  $(1 + z)^6 + (1 + z^{-1})^6$  equals:  
(a)  $2^7 \cos^6 \frac{\theta}{2}$  (b)  $2^7 \cos^6 \frac{\theta}{2} \cos 3\theta$  (c)  $2^7 \cos^6 \frac{\theta}{2} \cos 3\frac{\theta}{2}$  (d)  $2^7 \cos^6 \frac{\theta}{2} \cos 3\theta/2$
9. The number of terms in the expansion of  $(x + \frac{1}{x})^{20}$  with non-zero coefficients is:  
(a) 11 (b) 21 (c) 10 (d) 20
10. If  $\sum_{r=1}^n r 2^r = (n-1)2^{n+1} + 2$ , then  $\sum_{r=0}^n (2r+1)2^r$  equals:  
(a)  $(n+2)2^{n+1} - 1$  (b)  $(n+1)2^{n+2} + 1$  (c)  $(n+3)2^{n+1} + 1$  (d)  $(n+2)2^{n+2} - 1$
11. If  $\sin x + \sin 3x = a \sin 2x$ , then  $a =$ :  
(a)  $2 \cos x$  (b)  $2 \cos 2x$  (c)  $2 \cos x \cos 2x$  (d)  $2 \cos \frac{x}{2}$
12. Solve for principal values:  $\tan^{-1} \frac{3}{4} + \tan^{-1} \frac{5}{12} =$   
(a)  $\tan^{-1} 1$  (b)  $\tan^{-1} \frac{4}{3}$  (c)  $\frac{\pi}{4}$  (d)  $\frac{\pi}{2}$

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## SPLK-1004 Exam Quizzes, New SPLK-1004 Test Questions

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## Splunk Core Certified Advanced Power User Sample Questions (Q115-Q120):

### NEW QUESTION # 115

Which of the following is not a common default time field?

- A. date\_day
- B. date\_year
- C. date\_zone
- D. date\_minute

**Answer: C**

Explanation:

In Splunk, common default time fields include date\_minute, date\_year, and date\_day, which represent the minute, year, and day parts of event timestamps, respectively. date\_zone (Option A) is not recognized as a common default time field in Splunk. The platform typically uses fields like \_time and various date\_\* fields for time-related information but does not use date\_zone as a standard time field.

### NEW QUESTION # 116

Which field is required for an event annotation?

- A. eventtype
- B. annotation\_category
- C. annotation\_label
- D. \_time

**Answer: D**

Explanation:

The \_time field is required for event annotations in Splunk. This field specifies the time point or range where the annotation should be applied, helping correlate annotations with the correct temporal data.

### NEW QUESTION # 117

What does using the tstats command with summariesonly=false do?

- A. Prevents the use of wildcard characters in aggregate functions.
- B. Returns no results.
- C. Returns results from both summarized and non-summarized data.
- D. Returns results from only non-summarized data.

**Answer: C**

Explanation:

Setting summariesonly=false in the tstats command retrieves results from both summarized (accelerated) and non-summarized (raw) data, allowing a more comprehensive analysis of both types of data in the same query.

### NEW QUESTION # 118

Which of the following are potential string results returned by the typeof function?

- A. Number, String, Bool
- B. Number, String, Null

- C. Field, Value, Lookup
- D. True, False, Unknown

#### Answer: A

Explanation:

The `typeof` function in Splunk is used to determine the data type of a field or value. It returns one of the following string results:

- \* Number: Indicates that the value is numeric.
- \* String: Indicates that the value is a text string.
- \* Bool: Indicates that the value is a Boolean (true/false).

Here's why this works:

\* Purpose of `typeof`: The `typeof` function is commonly used in conjunction with the `eval` command to inspect the data type of fields or expressions. This is particularly useful when debugging or ensuring that fields are being processed as expected.

\* Return Values: The function categorizes values into one of the three primary data types supported by Splunk: `Number`, `String`, or `Bool`.

Example:

```
| makeresults
| eval example_field = "123"
| eval type = typeof(example_field)
```

This will produce:

```
_time example_field type
-----
<current_timestamp> 123 String
```

Other options explained:

\* Option A: Incorrect because `True`, `False`, and `Unknown` are not valid return values of the `typeof` function.

These might be confused with Boolean logic but are not related to data type identification.

\* Option C: Incorrect because `Null` is not a valid return value of `typeof`. Instead, `Null` represents the absence of a value, not a data type.

\* Option D: Incorrect because `Field`, `Value`, and `Lookup` are unrelated to the `typeof` function. These terms describe components of Splunk searches, not data types.

References:

\* Splunk Documentation on `typeof`: <https://docs.splunk.com/Documentation/Splunk/latest/SearchReference/CommonEvalFunctions>

\* Splunk Documentation on Data Types: <https://docs.splunk.com/Documentation/Splunk/latest/Search/Aboutfields>

## NEW QUESTION # 119

What is a performance improvement technique unique to dashboards?

- A. Using global searches
- B. Using report acceleration
- C. Using data model acceleration
- D. Using stats instead of transaction

#### Answer: A

Explanation:

In Splunk, dashboards are powerful tools for visualizing and analyzing data. However, as dashboards grow in complexity and the volume of data increases, performance optimization becomes critical. One technique unique to dashboards is the use of global searches.

What Are Global Searches?

A global search allows multiple panels within a dashboard to share the same base search. Instead of each panel running its own independent search, all panels derive their results from a single, shared search. This reduces the computational load on the Splunk instance because it eliminates redundant searches and ensures that the data is processed only once.

Why Is This Unique to Dashboards?

Global searches are specifically designed for dashboards where multiple panels often rely on the same dataset or search logic. By consolidating the search into one query, Splunk avoids duplicating effort, which improves performance significantly. This technique is not applicable to standalone searches or reports, making it unique to dashboards.

Comparison with Other Options:

\* B. Using data model acceleration: Data model acceleration (DMA) is a powerful feature for speeding up searches over large datasets by precomputing and storing summarized data. However, it is not unique to dashboards—it can be used in any type of search.

or report.

- \* C. Using stats instead of transaction: Replacing transaction commands with stats is a general best practice for improving search performance. While this is a valid optimization technique, it applies universally across Splunk and is not specific to dashboards.
- \* D. Using report acceleration: Report acceleration is another general-purpose optimization technique that speeds up saved searches by creating summaries of the data. Like DMA, it is not exclusive to dashboards.

Benefits of Global Searches:

- \* Reduced Search Load: By sharing a single search across multiple panels, the number of searches executed is minimized.
- \* Faster Dashboard Loading: Since the data is fetched once and reused, dashboards load faster.
- \* Consistent Results: All panels using the global search will display consistent results derived from the same dataset.

Example of Global Search in a Dashboard:

```
<dashboard>
<search id="base_search">
<query>index=main sourcetype=access_combined | fields clientip, status, method</query>
</search>
<panel>
<title>Status Codes</title>
<table>
<search base="base_search">
<query>| stats count by status</query>
</search>
</table>
</panel>
<panel>
<title>Top Clients</title>
<chart>
<search base="base_search">
<query>| top clientip</query>
</search>
</chart>
</panel>
</dashboard>
```

In this example, the `base_search` is defined once and reused by both panels. Each panel adds additional processing (stats or top) to the shared results, reducing redundancy.

References:

Splunk Documentation - Dashboard Best Practices: <https://docs.splunk.com/Documentation/Splunk/latest/Viz/BestPractices>

This document highlights the importance of global searches for optimizing dashboard performance.

Splunk Documentation - Global Searches: [https://docs.splunk.com/Documentation/Splunk/latest/Viz/PanelReferenceForSimplifiedXML#Global\\_searches](https://docs.splunk.com/Documentation/Splunk/latest/Viz/PanelReferenceForSimplifiedXML#Global_searches)

Detailed explanation of how global searches work and their implementation in dashboards.

Splunk Core Certified Power User Learning Path: The official Splunk training materials emphasize the use of global searches as a key technique for improving dashboard performance.

By leveraging global searches, users can ensure their dashboards remain efficient and responsive even as data volumes grow. This makes Option A the correct and verified answer.

## NEW QUESTION # 120

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