ACD200 Q&As

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QUESTION 1

Which of the following is a sign that an application\\'s performance is degrading and should be addressed with changes to the application design?

A. Integration calls to an external system are consistently returning an HTTP status code of 500.

B. Three of the top five most executed process models have a low completion percentage.

C. The number of tasks assigned to users has increased from 1 per day to 5 per day.

D. The number of objects in the Application has increased from about 100 to about 500.

Correct Answer: B

The question is about a sign that an application\\'s performance is degrading and should be addressed with changes to the application design. The following is a sign of this: Three of the top five most executed process models have a low completion percentage. This means that a large proportion of the process instances are not reaching the end event, either because they are taking too long to complete, or because they are encountering errors or exceptions. This can affect the performance of the application, as it can consume more memory and resources, and reduce the availability and reliability of the application. You should review the process model design and identify the causes of the low completion rate, and make changes to improve the process efficiency and error handling. The following are not signs of performance degradation that require changes to the application design: Integration calls to an external system are consistently returning an HTTP status code of 500. This means that the external system is experiencing an internal server error, which is not related to the application design. You should contact the external system provider and report the issue, or implement a fallback or retry mechanism in your integration logic. The number of tasks assigned to users has increased from 1 per day to 5 per day. This means that the workload or demand for the application has increased, which is not necessarily a sign of performance degradation. You should monitor the task completion rate and user feedback to see if the increase in tasks is affecting the user experience or satisfaction, and adjust the task assignment or prioritization logic if needed. The number of objects in the Application has increased from about 100 to about 500. This means that the application has grown in size and complexity, which is not necessarily a sign of performance degradation. You should follow the best practices for application design and maintenance, such as using folders, prefixes, dependencies, and documentation, to keep the application organized and manageable. References: Process Model Metrics HTTP Status Codes Task Report Application Design

QUESTION 2

You are investigating a slow-performing query entity which is mapped to a view and you decide to look in the data_store_details.csv log to gain more information. You see that the majority of the time is spent in the transform phase. Which two actions can you take to reduce the time spent in the transform phase? (Choose two.)

A. Reduce the use of unnecessary columns in the GROUP BY clause in the database view.

B. Reduce the number of columns returned from the query.

C. Create a database index on the column being filtered against.

D. Lower the batch size parameter of the query.

Correct Answer: BD

The data_store_details.csv log provides information about the performance of query entities. The log shows the time spent in three phases: extract, transform, and load. The extract phase is the time it takes to execute the SQL query on

the database. The transform phase is the time it takes to convert the SQL result set into Appian data types. The load phase is the time it takes to return the data to the expression that invoked the query entity. To reduce the time spent in the transform phase, two possible actions are to reduce the number of columns returned from the query and to lower the batch size parameter of the query. These actions can decrease the amount of data that needs to be converted and transferred, which can improve the performance of the query entity. Therefore, the correct answers are B and D. References: Query Entity Performance a!queryEntity() Function

QUESTION 3

In the next year, you expect the number of concurrent active users of your application to increase from approximately 50 to 500.

Which two recommendations for your Appian environment would address the performance risk of this large increase in users? (Choose two.)

A. Add more design engines.

B. Add more process execution engines.

C. Add more application server memory.

D. Switch from a records-centric to a process-centric design.

Correct Answer: BC

The question is about the recommendations for Appian environment to address the performance risk of a large increase in users. The following are two recommendations for this purpose: Add more process execution engines. This means adding more servers or nodes that can execute process instances in parallel, which can improve the scalability and availability of Appian. This can help handle the increased workload and demand from more users without affecting the response time or reliability of Appian. Add more application server memory. This means increasing the amount of memory allocated to each server or node that runs Appian components, such as web servers, engines, or analytics servers. This can help improve the performance and stability of Appian by reducing memory pressure and garbage collection. The following are not recommendations for Appian environment to address the performance risk of a large increase in users: Add more design engines. This means adding more servers or nodes that can execute expression rules or interface components in parallel, which can improve the performance and scalability of Appian. However, this is not directly related to the number of users, but rather to the complexity and frequency of expression rules or interface components in the application. Switch from a records-centric to a process-centric design. This means changing the application design to focus more on process models and tasks, rather than records and reports. This does not affect the Appian environment, but rather the application logic and functionality. This may or may not improve the performance of the application, depending on the requirements and use cases. References: Process Execution Engines Memory Recommendations Design Engines Records-Centric vs Process-Centric Design

QUESTION 4

The IT stakeholder wants to understand which processes have the highest footprint.

What are the two places to get information on process model memory usage? (Choose two.)

A. Administration Console

B. Process monitoring tab

C. Appian Health Check report

D. Application server log file

Correct Answer: BC

Two places to get information on process model memory usage are: Process monitoring tab. The process monitoring tab is a feature in the Appian Designer that allows you to monitor and manage the performance and status of process models and instances. You can use the process monitoring tab to view various metrics and statistics about your processes, such as memory usage, execution time, node count, error count, etc. You can also filter, sort, and export the data for further analysis. The process monitoring tab can help you identify which processes have the highest memory footprint and potential performance issues. Appian Health Check report. The Appian Health Check report is a tool that provides insights into application design patterns and performance risks in your environment. The report covers four areas of your environment: design, user experience, infrastructure, and configuration. The report also includes graphs highlighting historical trends, such as user activity, average response times, and resource utilization. The Appian Health Check report can help you identify which processes have the highest memory consumption and suggestions for mitigating them. References: Process Monitoring Tab, Understanding the Health Check Report

QUESTION 5

When looking at the process model metrics for your application, you see that one of your process models has a low completion rate of 10%.

What are two potential causes of this? (Choose two.)

A. The process instances are long-lived compared to the configured days until archival or deletion.

B. A large number of instances are encountering process errors, and they are not being addressed by the production support team.

C. A large value is configured for days until archival or deletion compared to other process models in your application.

D. A large number of smart service nodes are configured in the process model.

Correct Answer: AB

The question is about the potential causes of a low completion rate of 10% for a process model. The following are two possible causes of this:

The process instances are long-lived compared to the configured days until archival or deletion. This means that the process instances take a long time to complete, and they are archived or deleted before they reach the end event. This

reduces the completion rate, as only the instances that reach the end event are counted as completed.

A large number of instances are encountering process errors, and they are not being addressed by the production support team. This means that the process instances are stuck in an error state, and they cannot proceed to the next step or

the end event. This reduces the completion rate, as only the instances that reach the end event are counted as completed.

The following are not likely causes of a low completion rate:

A large value is configured for days until archival or deletion compared to other process models in your application. This means that the process instances have more time to complete before they are archived or deleted. This should increase

the completion rate, as more instances can reach the end event before they are removed from the system.

A large number of smart service nodes are configured in the process model. This means that the process model has a complex logic or functionality that requires multiple smart services. This does not directly affect the completion rate, as

long as the smart services execute successfully and do not cause errors or delays.

References:

Process Model Metrics

Archiving and Deleting Process Instances