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QUESTION 1

As part of your implementation workflow, users need to retrieve data stored in a third-party Oracle database on an interface. You need to design a way to query this information.

How should you set up this connection and query the data?

- A. Configure a Query DataBase node within the process model Then, type in the connection information, as well as a SQL query to execute and return the data in process variables.
- B. Configure a limed utility process that queries data from the thirdparty database daily, and stores It in the Applan business database, Then use alqueryEntity eating the Applan data source to retrieve the data.
- C. Configure an expression-backed record type, calling an API to retrieve the data from the third-party database. Then, use allqueryRecordType to retrieve the data.
- D. in the Administration Console configure the third-party database as a `\\'New Data Source,\\'\\' Then, use alqueryEntity to retrieve the data.

Correct Answer: D

To meet the application requirement of allowing users to navigate throughout the application while maintaining complete visibility in the application structure, and easily navigate to previous locations, you should include a breadcrumbs pattern on applicable interfaces to show the organizational hierarchy. A breadcrumbs pattern is a user interface component that displays the current location of the user within the application, and provides links to the previous levels of the hierarchy. For example, if the user is viewing a product details page, the breadcrumbs pattern could show something like "Home > Products > Product Details". This way, the user can see where they are in the application, and easily go back to any previous level by clicking on the corresponding link. The other options are not as effective. Option A, using Tiles as Cards pattern on the home page to prominently display application choices, would provide a way for users to access different parts of the application from the home page, but it would not show the organizational hierarchy or allow users to navigate to previous locations. Option B, implementing an Activity History pattern to track an organization\\'s activity measures, would provide a way for users to see the recent actions performed by themselves or others in the application, but it would not show the organizational hierarchy or allow users to navigate to previous locations. Option C, implementing a drilldown report pattern to show detailed information about report data, would provide a way for users to explore different levels of data in a report, but it would not show the organizational hierarchy or allow users to navigate to previous locations.

QUESTION 2

Your Appian project just went live with the following environment setup; DEV > TEST (SIT/DAT) > PROD

Your client is considering adding a support team to manage production defects and minor enhancements, white the original development team focuses on Phase 2 Your client is asking you for a new environment strategy that will have the least impact on Phase 2 development work.

Which option involves the lowest additional server cost and the least code retrofit effort?

- A. Phase 2 development work steam: DEV > TEST (SIT) > STAGE (UAT) > PROO Production support work stream DEV > TEST2 (SIT/UAT)>PROO
- B. Phase 2 development work Stream: DEV > TEST (SIT) > STAGE (UAT) > PROO Production support work stream DEV2 > STAGE (S1T/UAT) > PROD



C. Phase 2 development work stream: DEV > TEST (SIT/UAT) > PROD Production support work stream DEV > TEST2 (SIT/UAT) > PROD

D. Phase 2 development work stream: DEV > TEST (SIT/UAT) > PROD Production support work stream. DEV2 > TEST (SIT/UAT) > PROD

Correct Answer: B

The option B involves the lowest additional server cost and the least code retrofit effort, as it only requires one additional environment (DEV2) for the production support work stream. The production support work stream can use the existing STAGE environment for testing and user acceptance testing, as it is shared with the phase 2 development work stream. This way, there is no need to create a separate TEST2 environment or to retrofit any code from TEST to STAGE or from STAGE to PROD. Verified References: [Appian Certified Lead Developer study guide], page 16, section "Environment Strategy".

QUESTION 3

You have created a Web API in Appian. with the following URL to call it:

https://exampleappiancloud.com/suite/webapi/user_management/users?username=john.smith.

Which is the correct syntax for referring to the user name parameter?

- A. `httprequest.queryParameters.users.username`
- B. `httprequest.users.username`
- C. `httprequest.formData.username`
- D. `httprequest.queryParameters.username`

Correct Answer: D

The correct syntax for referring to the username parameter in the Web API URL is `httprequest.queryParameters.username`. This syntax allows you to access the value of the username parameter that is passed in the query string of the URL after the question mark (?). For example, if the URL is https://exampleappiancloud.com/suite/webapi/user_management/users?username=john.smith, then `httprequest.queryParameters.username` will return `john.smith`. Verified References: Appian Documentation, section "Web API".

QUESTION 4

What are two advantages of having High Availability (HA) for Appian Cloud applications?

- A. An Appian Cloud HA instance is composed of multiple active nodes running in different availability zones in different regions.
- B. Data and transactions are continuously replicated across the active nodes to achieve redundancy and avoid single points of failure.
- C. A typical Appian Cloud HA instance is composed of two active nodes.
- D. In the event of a system failure, your Appian instance will be restored and available to your users in less than 15 minutes, having lost no more than the last 1 minute worth of data.



Correct Answer: BD

The two advantages of having High Availability (HA) for Appian Cloud applications are:

B. Data and transactions are continuously replicated across the active nodes to achieve redundancy and avoid single points of failure. This is an advantage of having HA, as it ensures that there is always a backup copy of data and transactions in case one of the nodes fails or becomes unavailable. This also improves data integrity and consistency across the nodes, as any changes made to one node are automatically propagated to the other node. D. In the event of a system failure, your Appian instance will be restored and available to your users in less than 15 minutes, having lost no more than the last 1 minute worth of data. This is an advantage of having HA, as it guarantees a high level of service availability and reliability for your Appian instance. If one of the nodes fails or becomes unavailable, the other node will take over and continue to serve requests without any noticeable downtime or data loss for your users. The other options are incorrect for the following reasons:

A. An Appian Cloud HA instance is composed of multiple active nodes running in different availability zones in different regions. This is not an advantage of having HA, but rather a description of how HA works in Appian Cloud. An Appian Cloud HA instance consists of two active nodes running in different availability zones within the same region, not different regions.

C. A typical Appian Cloud HA instance is composed of two active nodes. This is not an advantage of having HA, but rather a description of how HA works in Appian Cloud. A typical Appian Cloud HA instance consists of two active nodes running in different availability zones within the same region, but this does not necessarily provide any benefit over having one active node. Verified References: Appian Documentation, section "High Availability".

QUESTION 5

You are just starting with a new team that has been working together on an application for months. They ask you to review some of their views that have been degrading in performance. The views are highly complex with hundreds of lines of SQL

What is the first step in troubleshooting the degradation?

A. Go through the entire database structure to obtain an overview, ensure you understand the business needs, and then normalize the tables to optimize performance.

B. Run an explain statement on the views, identify critical areas of improvement that can be remediated and without business knowledge

C. Go through all of the tables one by one to identify which of the grouped by, ordered by, or joined keys are currently indexed

D. Browse through the tables, note any tables that contain a large volume of null values, and work with your team to plan for table restructure.

Correct Answer: B

The first step in troubleshooting the degradation of the views is to run an explain statement on the views, identify critical areas of improvement that can be remediated without business knowledge. An explain statement is a tool that shows how a database executes a query or a view, and provides information about the cost, plan, and steps involved in the execution. By running an explain statement on the views, you can identify any inefficiencies or bottlenecks that are causing the degradation, such as missing indices, full table scans, nested loops, or hash joins. You can then apply some basic optimization techniques that do not require business knowledge, such as creating indices, limiting the number of columns or rows returned, using joins instead of subqueries, or using materialized views. Verified References: Appian Documentation, section "Query Optimization".



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