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## Valid Appian Lead Developer test answers, valid ACD301 exam dumps

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## Appian Lead Developer Sample Questions (Q25-Q30):

### NEW QUESTION # 25

You are running an inspection as part of the first deployment process from TEST to PROD. You receive a notice that one of your objects will not deploy because it is dependent on an object from an application owned by a separate team. What should be your next step?

- A. Create your own object with the same code base, replace the dependent object in the application, and deploy to PROD.
- **B. Halt the production deployment and contact the other team for guidance on promoting the object to PROD.**
- C. Push a functionally viable package to PROD without the dependencies, and plan the rest of the deployment accordingly with the other team's constraints.
- D. Check the dependencies of the necessary object. Deploy to PROD if there are few dependencies and it is low risk.

**Answer: B**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, managing a deployment from TEST to PROD requires careful handling of dependencies, especially when objects from another team's application are involved. The scenario describes a dependency issue during deployment, signaling a need for collaboration and governance. Let's evaluate each option:

A . Create your own object with the same code base, replace the dependent object in the application, and deploy to PROD:

This approach involves duplicating the object, which introduces redundancy, maintenance risks, and potential version control issues. It violates Appian's governance principles, as objects should be owned and managed by their respective teams to ensure consistency and avoid conflicts. Appian's deployment best practices discourage duplicating objects unless absolutely necessary, making this an unsustainable and risky solution.

B . Halt the production deployment and contact the other team for guidance on promoting the object to PROD:

This is the correct step. When an object from another application (owned by a separate team) is a dependency, Appian's deployment process requires coordination to ensure both applications' objects are deployed in sync. Halting the deployment prevents partial deployments that could break functionality, and contacting the other team aligns with Appian's collaboration and governance guidelines. The other team can provide the necessary object version, adjust their deployment timeline, or resolve the dependency, ensuring a stable PROD environment.

C . Check the dependencies of the necessary object. Deploy to PROD if there are few dependencies and it is low risk:

This approach risks deploying an incomplete or unstable application if the dependency isn't fully resolved. Even with "few dependencies" and "low risk," deploying without the other team's object could lead to runtime errors or broken functionality in PROD. Appian's documentation emphasizes thorough dependency management during deployment, requiring all objects (including those from other applications) to be promoted together, making this risky and not recommended.

D . Push a functionally viable package to PROD without the dependencies, and plan the rest of the deployment accordingly with the other team's constraints:

Deploying without dependencies creates an incomplete solution, potentially leaving the application non-functional or unstable in PROD. Appian's deployment process ensures all dependencies are included to maintain application integrity, and partial deployments are discouraged unless explicitly planned (e.g., phased rollouts). This option delays resolution and increases risk, contradicting Appian's best practices for Production stability.

Conclusion: Halting the production deployment and contacting the other team for guidance (B) is the next step. It ensures proper collaboration, aligns with Appian's governance model, and prevents deployment errors, providing a safe and effective resolution.

Reference:

Appian Documentation: "Deployment Best Practices" (Managing Dependencies Across Applications).

Appian Lead Developer Certification: Application Management Module (Cross-Team Collaboration).

Appian Best Practices: "Handling Production Deployments" (Dependency Resolution).

## NEW QUESTION # 26

You are in a backlog refinement meeting with the development team and the product owner. You review a story for an integration involving a third-party system. A payload will be sent from the Appian system through the integration to the third-party system. The story is 21 points on a Fibonacci scale and requires development from your Appian team as well as technical resources from the third-party system. This item is crucial to your project's success. What are the two recommended steps to ensure this story can be developed effectively?

- A. Identify subject matter experts (SMEs) to perform user acceptance testing (UAT).
- B. Acquire testing steps from QA resources.
- C. Break down the item into smaller stories.
- D. Maintain a communication schedule with the third-party resources.

**Answer: C,D**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

This question involves a complex integration story rated at 21 points on the Fibonacci scale, indicating significant complexity and effort. Appian Lead Developer best practices emphasize effective collaboration, risk mitigation, and manageable development scopes for such scenarios. The two most critical steps are:

Option C (Maintain a communication schedule with the third-party resources):

Integrations with third-party systems require close coordination, as Appian developers depend on external teams for endpoint specifications, payload formats, authentication details, and testing support. Establishing a regular communication schedule ensures alignment on requirements, timelines, and issue resolution. Appian's Integration Best Practices documentation highlights the importance of proactive communication with external stakeholders to prevent delays and misunderstandings, especially for critical project components.

Option D (Break down the item into smaller stories):

A 21-point story is considered large by Agile standards (Fibonacci scale typically flags anything above 13 as complex). Appian's Agile Development Guide recommends decomposing large stories into smaller, independently deliverable pieces to reduce risk, improve testability, and enable iterative progress. For example, the integration could be split into tasks like designing the payload structure, building the integration object, and testing the connection—each manageable within a sprint. This approach aligns with the principle of delivering value incrementally while maintaining quality.

Option A (Acquire testing steps from QA resources): While QA involvement is valuable, this step is more relevant during the testing phase rather than backlog refinement or development preparation. It's not a primary step for ensuring effective development of the story.

Option B (Identify SMEs for UAT): User acceptance testing occurs after development, during the validation phase. Identifying SMEs is important but not a key step in ensuring the story is developed effectively during the refinement and coding stages.

By choosing C and D, you address both the external dependency (third-party coordination) and internal complexity (story size), ensuring a smoother development process for this critical integration.

## NEW QUESTION # 27

As part of an upcoming release of an application, a new nullable field is added to a table that contains customer data. The new field is used by a report in the upcoming release and is calculated using data from another table.

Which two actions should you consider when creating the script to add the new field?

- A. Create a rollback script that clears the data from the field.
- **B. Create a script that adds the field and then populates it.**
- C. Add a view that joins the customer data to the data used in calculation.
- D. Create a script that adds the field and leaves it null.
- **E. Create a rollback script that removes the field.**

**Answer: B,E**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, adding a new nullable field to a database table for an upcoming release requires careful planning to ensure data integrity, report functionality, and rollback capability. The field is used in a report and calculated from another table, so the script must handle both deployment and potential reversibility. Let's evaluate each option:

A . Create a script that adds the field and leaves it null:

Adding a nullable field and leaving it null is technically feasible (e.g., using `ALTER TABLE ADD COLUMN` in SQL), but it doesn't address the report's need for calculated data. Since the field is used in a report and calculated from another table, leaving it null risks incomplete or incorrect reporting until populated, delaying functionality. Appian's data management best practices recommend populating data during deployment for immediate usability, making this insufficient as a standalone action.

B . Create a rollback script that removes the field:

This is a critical action. In Appian, database changes (e.g., adding a field) must be reversible in case of deployment failure or rollback needs (e.g., during testing or PROD issues). A rollback script that removes the field (e.g., `ALTER TABLE DROP COLUMN`) ensures the database can return to its original state, minimizing risk. Appian's deployment guidelines emphasize rollback scripts for schema changes, making this essential for safe releases.

C . Create a script that adds the field and then populates it:

This is also essential. Since the field is nullable, calculated from another table, and used in a report, populating it during deployment ensures immediate functionality. The script can use SQL (e.g., `UPDATE table SET new_field = (SELECT calculated_value FROM other_table WHERE condition)`) to populate data, aligning with Appian's data fabric principles for maintaining data consistency. Appian's documentation recommends populating new fields during deployment for reporting accuracy, making this a key action.

D . Create a rollback script that clears the data from the field:

Clearing data (e.g., `UPDATE table SET new_field = NULL`) is less effective than removing the field entirely. If the deployment fails, the field's existence with null values could confuse reports or processes, requiring additional cleanup. Appian's rollback strategies favor reverting schema changes completely (removing the field) rather than leaving it with nulls, making this less reliable and unnecessary compared to B.

E . Add a view that joins the customer data to the data used in calculation:

Creating a view (e.g., `CREATE VIEW customer_report AS SELECT ... FROM customer_table JOIN other_table ON ...`) is useful for reporting but isn't a prerequisite for adding the field. The scenario focuses on the field addition and population, not reporting structure. While a view could optimize queries, it's a secondary step, not a primary action for the script itself. Appian's data modeling best practices suggest views as post-deployment optimizations, not script requirements.

Conclusion: The two actions to consider are B (create a rollback script that removes the field) and C (create a script that adds the field and then populates it). These ensure the field is added with data for immediate report usability and provide a safe rollback option, aligning with Appian's deployment and data management standards for schema changes.

Reference:

Appian Documentation: "Database Schema Changes" (Adding Fields and Rollback Scripts).  
Appian Lead Developer Certification: Data Management Module (Schema Deployment Strategies).  
Appian Best Practices: "Managing Data Changes in Production" (Populating and Rolling Back Fields).

### NEW QUESTION # 28

For each scenario outlined, match the best tool to use to meet expectations. Each tool will be used once Note: To change your responses, you may deselected your response by clicking the blank space at the top of the selection list.

The screenshot displays a certification question interface with four scenarios. Each scenario has a dropdown menu for selecting a tool. The tools available are: Write to Data Store Entity smart service, Database Stored Procedure, Database Trigger, and Database Complex View. The first scenario is partially obscured by a watermark. The second, third, and fourth scenarios are clearly visible.

**Scenario 1:** As a user, if I update an object of type "Customer," the value of the "Company" field should be displayed on the "Company" Record List.  
Select a match:  
Write to Data Store Entity smart service  
Database Stored Procedure  
Database Trigger  
Database Complex View

**Scenario 2:** As a user, if I update an object of type "Customer," a simple data transformation needs to be performed on related objects of the same type (namely, all the customers related to the same company).  
Select a match:  
Write to Data Store Entity smart service  
Database Stored Procedure  
Database Trigger  
Database Complex View

**Scenario 3:** As a user, if I update an object of type "Customer," some complex data transformations need to be performed on related objects of type "Customer," "Company," and "Contract."  
Select a match:  
Write to Data Store Entity smart service  
Database Stored Procedure  
Database Trigger  
Database Complex View

**Scenario 4:** As a user, if I update an object of type "Customer," some simple data transformations need to be performed on related objects of type "Company," "Address," and "Contract."  
Select a match:  
Write to Data Store Entity smart service  
Database Stored Procedure  
Database Trigger  
Database Complex View

**Answer:**

**Explanation:**



As a user, if I update an object of type "Customer," the value of the given field should be displayed on the "Company" Record List.

Select a match:

- Write to Data Store Entity smart service
- Database Stored Procedure
- Database Trigger
- Database Complex View

As a user, if I update an object of type "Customer," a simple data transformation needs to be performed on related objects of the same type (namely, all the customers related to the same company).

Select a match:

- Write to Data Store Entity smart service
- Database Stored Procedure
- Database Trigger
- Database Complex View

As a user, if I update an object of type "Customer," some complex data transformations need to be performed on related objects of type "Customer," "Company," and "Contract."

Select a match:

- Write to Data Store Entity smart service
- Database Stored Procedure
- Database Trigger
- Database Complex View

As a user, if I update an object of type "Customer," some simple data transformations need to be performed on related objects of type "Company," "Address," and "Contract."

Select a match:

- Write to Data Store Entity smart service
- Database Stored Procedure
- Database Trigger
- Database Complex View

## NEW QUESTION # 29

Your application contains a process model that is scheduled to run daily at a certain time, which kicks off a user input task to a specified user on the 1st time zone for morning data collection. The time zone is set to the (default) pm!timezone. In this situation, what does the pm!timezone reflect?

- A. The default time zone for the environment as specified in the Administration Console.
- B. The time zone of the user who is completing the input task.
- C. The time zone of the server where Appian is installed.
- D. The time zone of the user who most recently published the process model.

**Answer: A**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

In Appian, the pm!timezone variable is a process variable automatically available in process models, reflecting the time zone context for scheduled or time-based operations. Understanding its behavior is critical for scheduling tasks accurately, especially in scenarios like this where a process runs daily and assigns a user input task.

Option C (The default time zone for the environment as specified in the Administration Console):

This is the correct answer. Per Appian's Process Model documentation, when a process model uses pm!timezone and no custom time zone is explicitly set, it defaults to the environment's time zone configured in the Administration Console (under System > Time Zone settings). For scheduled processes, such as one running "daily at a certain time," Appian uses this default time zone to determine when the process triggers. In this case, the task assignment occurs based on the schedule, and pm!timezone reflects the environment's setting, not the user's location.

Option A (The time zone of the server where Appian is installed): This is incorrect. While the server's time zone might influence underlying system operations, Appian abstracts this through the Administration Console's time zone setting. The pm!timezone variable aligns with the configured environment time zone, not the raw server setting.

Option B (The time zone of the user who most recently published the process model): This is irrelevant. Publishing a process model does not tie pm!timezone to the publisher's time zone. Appian's scheduling is system-driven, not user-driven in this context.

Option D (The time zone of the user who is completing the input task): This is also incorrect. While Appian can adjust task display times in the user interface to the assigned user's time zone (based on their profile settings), the pm!timezone in the process model reflects the environment's default time zone for scheduling purposes, not the assignee's.

For example, if the Administration Console is set to EST (Eastern Standard Time), the process will trigger daily at the specified time in EST, regardless of the assigned user's location. The "1st time zone" phrasing in the question appears to be a typo or miscommunication, but it doesn't change the fact that pm!timezone defaults to the environment setting.

## NEW QUESTION # 30

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