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1 / 5

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Appian ACD201 Exam Syllabus Topics:

| Topic | Details |
|---------|---|
| Topic 1 | <ul style="list-style-type: none">Application Design and Development: This section of the exam measures the skills of Appian Developers and covers translating business requirements into user stories, building end-to-end applications, managing object security, applying design best practices, and ensuring user-centric experiences through proper UX design. |
| Topic 2 | <ul style="list-style-type: none">Advanced Appian Concepts: This section of the exam measures the skills of Solution Architects and covers creating and configuring authentication methods, setting up integration objects, designing APIs, evaluating smart services and plug-ins, and applying SSO mechanisms with SAML and LDAP. |

| | |
|---------|--|
| Topic 3 | <ul style="list-style-type: none"> • Performance and Scalability: This section of the exam measures the skills of Appian Developers and covers designing performant components, building memory-efficient models, conducting database load and automated testing, analyzing server memory and logs for risks, and resolving performance concerns for end users. |
| Topic 4 | <ul style="list-style-type: none"> • Data Management: This section of the exam measures the skills of Solution Architects and covers designing and documenting data models, recommending record types for optimization and security, working with relational data, and implementing complex models with supporting objects. |

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Appian Senior Developer Sample Questions (Q18-Q23):

NEW QUESTION # 18

A view is created with the primary table PERSON and is joined using a left join with the APPOINTMENT table on the column "PERSON_ID". There is a one-to-many relationship between the PERSON and APPOINTMENT tables.

A Custom Data Type (CDT) and a data store entity have been created based on this view, with the primary key being "PERSON_ID".

Review the data presented in the PERSON and APPOINTMENT tables:

| PERSON_ID | PERSON_NAME |
|-----------|-------------|
| 1101 | John Doe |
| 1102 | Jane Doe |
| 1103 | Richard Doe |

| APPOINTMENT_ID | PERSON_ID | STATUS |
|----------------|-----------|-----------|
| 428 | 1101 | Completed |
| 429 | 1102 | Completed |
| 430 | 1101 | New |
| 431 | 1103 | Completed |
| 432 | 1101 | New |
| 433 | 1102 | New |
| 434 | 1101 | New |

Which two statements are true when the following query entity is executed? (Choose two.)

```

a!queryEntity(
  entity: cons!ABC_PERSON_APPOINTMENT,
  query: alquery(
    logicalExpression: alqueryLogicalExpression(
      operator: "AND",
      filters: {
        a!queryFilter(
          field: "STATUS",
          operator: "=",
          value: "New"
        ),
        a!queryFilter(
          field: "PERSON_ID",
          operator: "=",
          value: "1101"
        )
      }
    ),
    pagingInfo: alpagingInfo(
      startIndex: 1,
      batchSize: 1,
      sort: alsortInfo(field: "PERSON_ID")
    )
  ),
  fetchTotalCount: true()
)

```

- A. Appian makes one more query to the database (other than the actual query to fetch the data) to get the totalCount based on the applied filters.
- B. result totalCount is 3
- C. Appian makes one more query to the database (other than the actual query to fetch the data) to get the totalCount based on the applied filters and paging info.
- D. result totalCount is 1

Answer: A,D

Explanation:

Appian makes an additional query to the database (other than the main query for data) to retrieve the totalCount when fetchTotalCount: true() is used.

The result totalCount is 1, as there is only one person (PERSON_ID 1101) being filtered, even though there are multiple "New" appointments for that person; with a CDT based on PERSON_ID as the primary key, only one row is counted per person.


NEW QUESTION # 19

You're creating a process to update specific fields in a list of records and you save the updated records to the database.

You're given the following performance considerations:

Based on these performance metrics, rank the options from best to worst.

Note: To answer, move all steps from the Options list to the Answer List area and arrange them in the correct ranking order (best at the top, and worst at the bottom).

| | |
|---|---|
| 0 Configure a subprocess node which calls a process model to update an individual record. Configure the MNI settings to run one instance for each record in the list and to start at the same time. | 0 |
| 0 Configure a start process node which calls a process model to update an individual record. Configure the MNI settings to run one instance for each record in the list and to start at the same time. | 0 |
| 0 Within a script task, utilize an <code>forEach()</code> loop to update each record in the list. | 0 |
| 0 Configure a synchronous subprocess node which calls a process model to update an individual record. Loop over the subprocess node for each record in the list. | 0  |

Answer:

Explanation:

| | |
|---|---|
| 0 Configure a subprocess node which calls a process model to update an individual record. Configure the MNI settings to run one instance for each record in the list and to start at the same time. | 0 Within a script task, utilize an <code>forEach()</code> loop to update each record in the list. |
| 0 Configure a start process node which calls a process model to update an individual record. Configure the MNI settings to run one instance for each record in the list and to start at the same time. | 0 Configure a subprocess node which calls a process model to update an individual record. Configure the MNI settings to run one instance for each record in the list and to start at the same time. |
| 0 Within a script task, utilize an <code>forEach()</code> loop to update each record in the list. | 0 Configure a start process node which calls a process model to update an individual record. Configure the MNI settings to run one instance for each record in the list and to start at the same time. |
| 0 Configure a synchronous subprocess node which calls a process model to update an individual record. Loop over the subprocess node for each record in the list. | 0 Configure a synchronous subprocess node which calls a process model to update an individual record. Loop over the subprocess node for each record in the list. |

NEW QUESTION # 20

You need to configure Appian user authentication against an external directory server. The requirement is to use the same corporate logon information without single sign-on (SSO).

Which authentication type should you use?

- A. LDAP authentication
- B. OpenID Connect authentication
- C. PIEE user authentication

Answer: A

Explanation:

LDAP authentication allows users to log in with their corporate credentials by authenticating against an external directory server, without requiring single sign-on (SSO).

NEW QUESTION # 21

After reviewing the latest Expression performance logs, you notice you have several expressions contributing to slow interface or process performance.

Which two conditions will lead to a higher risk associated with slow-performing expressions? (Choose two.)

- A. When the expression is evaluated on a mobile device.
- B. When the expression is used frequently or by many concurrent users.
- C. When the expression is a custom function plug-in.
- D. When the expression is used in a local variable.

Answer: B,C

Explanation:

When the expression is used frequently or by many concurrent users.

A slow-running rule that executes a large number of times - or is triggered by many users at once - multiplies its performance impact, raising the overall risk flagged in the expression-performance logs.

When the expression is a custom function plug-in.

Custom Java plug-ins can introduce additional processing overhead (or poorly optimized code). If such functions are slow, they typically appear near the top of performance logs and carry a higher risk score.

NEW QUESTION # 22

You need to relate two entities, Employee and Skill, in the data structure. You want to adhere to Appian best practices.

Employees can have multiple skills, and a single skill can relate to multiple employees.

What type of relationship do these entities represent, and what is the minimum number of tables required to implement the design?

- A. Many-to-many; 3 tables
- B. One-to-many; 2 tables
- C. Many-to-many; 2 tables

Answer: A

Explanation:

The relationship between Employee and Skill is many-to-many - an employee can have multiple skills, and each skill can belong to multiple employees.

To model this properly and according to Appian best practices, you need 3 tables:

Employee table



Skill table

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EmployeeSkill (junction/association) table - contains foreign keys referencing both Employee and Skill to manage the many-to-many relationship.

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NEW QUESTION # 23

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