



# Salesforce

Plat-Arch-201 Exam

Salesforce Certified Platform Data Architect

Exam Latest Version: 6.0

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### Question 1. (Single Select)

Cloud Kicks has the following requirements:

- Their Shipment custom object must always relate to a Product, a Sender, and a Receiver (all separate custom objects).
- If a Shipment is currently associated with a Product, Sender, or Receiver, deletion of those records should not be allowed.
- Each custom object must have separate sharing models.

What should an Architect do to fulfill these requirements?

- A: Associate the Shipment to each parent record by using a VLOOKUP formula field.
- B: Create a required Lookup relationship to each of the three parent records.
- C: Create a Master-Detail relationship to each of the three parent records.
- D: Create two Master-Detail and one Lookup relationship to the parent records.

**Correct Answer: B**

#### **Explanation:**

A required Lookup relationship ensures that the Shipment record must have a value for each of the three parent records, and also prevents the deletion of those parent records if they are referenced by a Shipment record. A Master-Detail relationship would not allow separate sharing models for each custom object, and a VLOOKUP formula field would not enforce the relationship or prevent deletion

### Question 2. (Single Select)

Universal Containers has a legacy system that captures Conferences and Venues. These Conferences can occur at any Venue. They create hundreds of thousands of Conferences per year. Historically, they have only used 20 Venues. Which two things should the data architect consider when denormalizing this data model into a single Conference object with a Venue

picklist? Choose 2 answers

- A: Limitations on master -detail relationships.
- B: Org data storage limitations.
- C: Bulk API limitations on picklist fields.
- D: Standard list view in -line editing.

**Correct Answer:**

**Explanation:**

When denormalizing a data model into a single object with a picklist field, the data architect should consider the Bulk API limitations on picklist fields and the standard list view in-line editing. The Bulk API has a limit of 1,000 distinct picklist values per file<sup>1</sup>, which could be an issue if there are more than 1,000 venues in the future. The standard list view in-line editing allows users to edit multiple records at once, which could introduce data quality issues if the venue picklist is not validated or restricted<sup>2</sup>. The other options are not relevant to denormalizing a data model.

**Question 3. (Single Select)**

Universal Container (UC) has around 200,000 Customers (stored in Account object). They get 1 or 2 Orders every month from each Customer. Orders are stored in a custom object called "Order\_c"; this has about 50 fields. UC is expecting a growth of 10% year -over -year. What are two considerations an architect should consider to improve the performance of SOQL queries that retrieve data from the Order\_c object? Choose 2 answers

- A: Use SOQL queries without WHERE conditions.
- B: Work with Salesforce Support to enable Skinny Tables.
- C: Reduce the number of triggers on Order\_c object.
- D: Make the queries more selective using indexed fields.

**Correct Answer:**

**Explanation:**

To improve the performance of SOQL queries that retrieve data from the Order\_c object, the data architect should work with Salesforce Support to enable Skinny Tables and make the queries more selective using indexed fields. Skinny Tables are custom tables that contain frequently used fields and are kept in sync with the base tables<sup>3</sup>. They can improve performance by reducing the number of table joins and using indexes. Making the queries more selective using indexed fields can also improve performance by reducing the query execution time and avoiding query timeouts<sup>4</sup>. The other options are not effective or recommended for improving SOQL performance.

#### Question 4. (Single Select)

Universal Containers (UC) provides shipping services to its customers. They use Opportunities to track customer shipments. At any given time, shipping status can be one of the 10 values. UC has 200,000 Opportunity records. When creating a new field to track shipping status on opportunity, what should the architect do to improve data quality and avoid data skew?

- A: Create a picklist field, values sorted alphabetically.
- B: Create a Master -Detail to custom object ShippingStatus c.
- C: Create a Lookup to custom object ShippingStatus c.
- D: Create a text field and make it an external I

**Correct Answer: A**

#### Explanation:

To improve data quality and avoid data skew, the data architect should create a picklist field with values sorted alphabetically for tracking shipping status on opportunity. A picklist field ensures that only valid values are entered and prevents typos or variations in spelling. Sorting the values alphabetically makes it easier for users to find and select the correct value. Data skew occurs when a large number of records are owned by a single user or have a single value for a field. Creating a picklist field with a limited number of values does not cause data skew, as long as the distribution of values is balanced and not skewed towards one value.

#### Question 5. (Single Select)

Universal Containers (UC) management has identified a total of ten text fields on the Contact object as important to capture any changes made to these fields, such as who made the change, when they made the change, what is the old value, and what is the new value. UC needs to be able to report on these field data changes within Salesforce for the past 3 months. What are two approaches that will meet this requirement? Choose 2 answers

A: Create a workflow to evaluate the rule when a record is created and use field update actions to store previous values for these ten fields in ten new fields.

B: Write an Apex trigger on Contact after insert event and after update events and store the old values in another custom object.

C: Turn on field Contact object history tracking for these ten fields, then create reports on contact history.

D: Create a Contact report including these ten fields and Salesforce Id, then schedule the report to run once a day and send email to the admin.

**Correct Answer:**

### **Explanation:**

To capture and report on any changes made to ten text fields on the Contact object for the past 3 months, the data architect should write an Apex trigger on Contact after insert and after update events and store the old values in another custom object, or turn on field Contact object history tracking for these ten fields and create reports on contact history. An Apex trigger can capture the old and new values of the fields, as well as the user and time of the change, and store them in a custom object that can be used for reporting. Field history tracking can also track the changes to the fields and store them in a history table that can be used for reporting. However, field history tracking only retains data for up to 18 months or 24 months with an extension, so it may not be suitable for longer-term reporting needs. The other options are not feasible or effective for capturing and reporting on field data changes.



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