



# DATA-ARCHITECT<sup>Q&As</sup>

Salesforce Certified Data Architect

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**QUESTION 1**

Universal Containers (UC) has a requirement to create an Account plan object that is related to the Account object. Each Account plan needs to have an Account object, but the accessibility requirement of the Account plan is different from the Account object. What should an Architect recommend?

- A. Create a custom account plan object as detail with Account as master in a master-detail relationship.
- B. Create a custom account plan object as detail with Account as master with additional sharing rules to allow access.
- C. Create an account plan object with a lookup relationship to Account without any validation rules to enforce the Account association.
- D. Create an account plan object with a lookup relationship to Account with validation rules to enforce the Account association.

Correct Answer: D

Explanation: Creating an account plan object with a lookup relationship to Account with validation rules to enforce the Account association can help UC meet their requirement. A lookup relationship allows different accessibility requirements for the account plan object and the account object, as well as different ownership and sharing settings. A validation rule can ensure that each account plan has an account associated with it.

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**QUESTION 2**

Universal Containers has been a customer of Salesforce for 10 years. Currently they have 2 million accounts in the system. Due to an erroneous integration built 3 years ago, it is estimated there are 500,000 duplicates in the system.

Which solution should a data architect recommend to remediate the duplication issue?

- A. Develop an ETL process that utilizes the merge API to merge the duplicate records
- B. Utilize a data warehouse as the system of truth
- C. Extract the data using data loader and use excel to merge the duplicate records
- D. Implement duplicate rules

Correct Answer: D

Explanation: Implementing duplicate rules (option D) is the best solution to remediate the duplication issue, as it allows the data architect to identify and merge duplicate accounts in Salesforce using native features and tools. Developing an ETL process that utilizes the merge API to merge the duplicate records (option A) is not a good solution, as it may require more coding and testing effort, and it does not prevent duplicates from being created in Salesforce. Utilizing a data warehouse as the system of truth (option B) is also not a good solution, as it may introduce additional complexity and cost, and it does not address the duplication issue in Salesforce. Extracting the data using data loader and using excel to merge the duplicate records (option C) is also not a good solution, as it may be time-consuming and error-prone, and it does not prevent duplicates from being created in Salesforce.

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**QUESTION 3**



Developers at Universal Containers need to build a report for the business which displays Accounts opened in the past year grouped by industry. This report will also include information from contacts, opportunities, and orders. There are several million Accounts in the system. Which two options should be recommended to make this report perform well and satisfy the business need?

- A. Use triggers to populate denormalized related fields on the Account.
- B. Use an indexed data field with bounded data filters.
- C. Use Formula fields to surface information I related entities on the report.
- D. Use unbounded date ranges to filter the report.

Correct Answer: BC

Explanation: Using an indexed data field with bounded data filters can improve the report performance by making the query more selective and reducing the number of records to scan. Using formula fields to surface information from related entities on the report can also enhance the report performance by avoiding joins and complex calculations

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#### QUESTION 4

NTO need to extract 50 million records from a custom object everyday from its Salesforce org. NTO is facing query timeout issues while extracting these records.

What should a data architect recommend in order to get around the time out issue?

- A. Use a custom auto number and formula field and use that to chunk records while extracting data.
- B. The REST API to extract data as it automatically chunks records by 200.
- C. Use ETL tool for extraction of records.
- D. Ask SF support to increase the query timeout value.

Correct Answer: C

The best solution to extract 50 million records from a custom object everyday from Salesforce org without facing query timeout issues is to use an ETL tool for extraction of records. ETL stands for extract, transform, and load, and it refers to a process of moving data from one system to another. An ETL tool is a software application that can connect to various data sources, perform data transformations, and load data into a target destination. ETL tools can handle large volumes of data efficiently and reliably, and they often provide features such as scheduling, monitoring, error handling, and logging<sup>5</sup>. Using a custom auto number and formula field and use that to chunk records while extracting data is a possible workaround, but it requires creating additional fields and writing complex queries. The REST API can extract data as it automatically chunks records by 200, but it has some limitations, such as a maximum of 50 million records per query job<sup>6</sup>. Asking SF support to increase the query timeout value is not feasible because query timeout values are not configurable

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#### QUESTION 5

Universal Containers (UC) maintains a collection of several million Account records that represent business in the United States. As a logistics company, this list is one of the most valuable and important components of UC's business, and the accuracy of shipping addresses is paramount. Recently it has been noticed that too many of the addresses of these businesses are inaccurate, or the businesses don't exist. Which two scalable strategies should UC consider to



improve the quality of their Account addresses?

- A. Contact each business on the list and ask them to review and update their address information.
- B. Build a team of employees that validate Accounts by searching the web and making phone calls.
- C. Integrate with a third-party database or services for address validation and enrichment.
- D. Leverage Data.com Clean to clean up Account address fields with the DandB database.

Correct Answer: CD

Explanation: Integrating with a third-party database or service for address validation and enrichment is a scalable strategy that can improve the quality of the Account addresses by comparing them with a reliable source of data1. Leveraging Data.com Clean to clean up Account address fields with the DandB database is another scalable strategy that can automatically update and enrich Account records with verified information from Data.com2.

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