



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

Salesforce Certified Data Architect

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**QUESTION 1**

UC has migrated its Back-office data into an on-premise database with REST API access. UC recently implemented Sales cloud for its sales organization. But users are complaining about a lack of order data inside SF.

UC is concerned about SF storage limits but would still like Sales cloud to have access to the data.

Which design patterns should a data architect select to satisfy the requirement?

- A. Migrate and persist the data in SF to take advantage of native functionality.
- B. Use SF Connect to virtualize the data in SF and avoid storage limits.
- C. Develop a bidirectional integration between the on-premise system and Salesforce.
- D. Build a UI for the on-premise system and iframe it in Salesforce

Correct Answer: B

The best design pattern to satisfy the requirement of accessing order data from an on- premise database with REST API access without consuming SF storage limits is to use SF Connect to virtualize the data in SF and avoid storage limits. SF Connect is an integration tool that allows users to access and integrate data from external sources using external objects. External objects are similar to custom objects, except that the data resides in another system and is accessed in real time via web service callouts. SF Connect supports various adapters to connect to different types of external data sources, such as OData, cross-org, or Apex custom adapter<sup>11</sup>. Migrate and persist the data in SF to take advantage of native functionality is not a good option because it would consume SF storage limits and require data synchronization between systems. Develop a bidirectional integration between the on-premise system and Salesforce is not a good option because it would be complex and costly to implement and maintain, and it would also consume SF storage limits. Build a UI for the on-premise system and iframe it in Salesforce is not a good option because it would not provide a seamless user experience and it would not allow users to search, report, or perform actions on the external data.

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**QUESTION 2**

Universal Containers has defined a new Data Quality Plan for their Salesforce data and wants to know how they can enforce it throughout the organization. Which two approaches should an architect recommend to enforce this new plan?

Choose 2 answers

- A. Schedule a weekly dashboard displaying records that are missing information to be sent to managers for review.
- B. Use Workflow, Validation Rules, and Force.com code (Apex) to enforce critical business processes.
- C. Schedule reports that will automatically catch duplicates and merge or delete the records every week.
- D. Store all data in an external system and set up an integration to Salesforce for view - only access.

Correct Answer: AB

Explanation: Scheduling a weekly dashboard displaying records that are missing information to be sent to managers for review and using Workflow, Validation Rules, and Force.com code (Apex) to enforce critical business processes are two approaches that an architect should recommend to enforce the new Data Quality Plan for UC's Salesforce data. Scheduling a weekly dashboard can provide a regular and visual way of monitoring the data quality and identifying any



gaps or issues that need to be addressed by the managers or users. Using Workflow, Validation Rules, and Apex can provide various ways of enforcing data quality standards and business logic by automating actions, displaying error messages, or executing custom code when users create or edit records. The other options are not suitable or helpful for enforcing the Data Quality Plan, as they would either not provide real-time feedback, not prevent data quality issues, or not leverage the capabilities of Salesforce

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### QUESTION 3

UC has large amount of orders coming in from its online portal. Historically all order are assigned to a generic user.

Which 2 measures should data architect recommend to avoid any performance issues while working with large number of order records? Choose 2 answers:

- A. Clear the role field in the generic user record.
- B. Salesforce handles the assignment of orders automatically and there is no performance impact.
- C. Create a role at top of role hierarchy and assign the role to the generic user.
- D. Create a pool of generic users and distribute the assignment of memory to the pool of users.

Correct Answer: AC

Explanation: Clearing the role field in the generic user record and creating a role at the top of the role hierarchy and assigning it to the generic user are two measures that can help avoid performance issues while working with large number of order records. These measures can prevent data skew and lock contention that may occur when a single user owns or shares a large number of records

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### QUESTION 4

Universal Containers (UC) has implemented Salesforce, UC is running out of storage and needs to have an archiving solution, UC would like to maintain two years of data in Salesforce and archive older data out of Salesforce.

Which solution should a data architect recommend as an archiving solution?

- A. Use a third-party backup solution to backup all data off platform.
- B. Build a batch join move all records off platform, and delete all records from Salesforce.
- C. Build a batch join to move two-year-old records off platform, and delete records from Salesforce.
- D. Build a batch job to move all restore off platform, and delete old records from Salesforce.

Correct Answer: C

Explanation: The data architect should recommend building a batch job to move two-year- old records off platform, and delete records from Salesforce as an archiving solution. A batch job is a process that runs in the background and performs operations on large volumes of data in Salesforce. By building a batch job that moves two-year-old records off platform to an external storage system, such as Amazon S3 or Google Cloud Storage, and deletes them from Salesforce, the data architect can reduce the storage consumption and improve the performance of Salesforce org. Option A is incorrect because using a third- party backup solution to backup all data off platform will not free up any storage space in Salesforce, unless the data is also deleted from Salesforce after backup. Option B is incorrect because building a batch job to move all records off platform, and delete all records from Salesforce will result in losing all the



current data in Salesforce, which may not be desirable or feasible. Option D is incorrect because building a batch job to move all restore off platform, and delete old records from Salesforce does not make sense, as restore implies restoring data back to Salesforce, not moving it off platform.

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#### QUESTION 5

A customer wants to maintain geographic location information including latitude and longitude in a custom object. What would a data architect recommend to satisfy this requirement?

- A. Create formula fields with geolocation function for this requirement.
- B. Create custom fields to maintain latitude and longitude information
- C. Create a geolocation custom field to maintain this requirement
- D. Recommend app exchange packages to support this requirement.

Correct Answer: C

Explanation: The correct answer is C, create a geolocation custom field to maintain this requirement. A geolocation custom field is a compound field that can store both latitude and longitude information in a single field. It also supports geolocation functions and distance calculations. Creating formula fields or custom fields for latitude and longitude separately would be inefficient and redundant. Recommending app exchange packages would not be a direct solution to the requirement.

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