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Data Structure Question bank

Module 1

1. What is data structure? State the need of data structure in detail.
2. How data structures are classified? Explain it with example of each.
3. What are characteristics of Non primitive Data structures? Explain
4. Differentiate between linear and non-linear data structures.
5. Differentiate between Primitive and non-Primitive data structures.
6. Write a note on static and dynamic data structure. Explain the operations that can be performed on data structures.
7. Explain Abstract data type with suitable example. Draw and Explain Abstract data type model.
8. What is Algorithm? Why it is needed? Explain the criteria of algorithm.
9. What is Complexity of algorithm? Explain Time and space complexity of algorithm with example.
10. What is Asymptotic notation? Explain all asymptotic notations in detail.

Module 2

1. Describe working of linear search with example.
2. Write a program to search element using linear search.
3. What is binary search? Explain working of Binary search with an example.
4. Difference between Linear search and Binary search
5. What is sorting?
   Sort the following numbers in ascending order using Bubble sort.
   29, 35, 3, 8, 11, 15, 56, 12, 1, 4, 85, 5 and write the output after each interaction.
6. Write a C program to sort list of elements using bubble sort.
7. Describe working of selection sort with suitable example. What is time complexity of selection sort?
8. Write a C program to sort list of elements using selection sort.
9. How insertion sort works? Write a C program to sort the list of elements using insertion sort.
10. Sort the Array: 50 30 10 90 80 20 40 70 using Quick sort. Explain each step.
11. Write a C program to sort list of elements using Quick sort.
12. Describe working of radix sort along with example.
13. Describe working of merge sort along with example

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Salesforce Certified Data Architect Sample Questions (Q240-Q245):

NEW QUESTION # 240
Universal Containers (UC) is implementing a Salesforce project with large volumes of data and daily transactions. The solution includes both real-time web service integrations and Visualforce mash -ups with back -end systems. The Salesforce Full sandbox used by the project integrates with full-scale back -end testing systems. What two types of performance testing are appropriate for this project?
Choose 2 answers

- A. Pre -go -live unit testing in the Salesforce Full sandbox.
- B. Stress testing against the web services hosted by the integration middleware.
- C. Pre -go -live automated page -load testing against the Salesforce Full sandbox.
- D. Post go -live automated page -load testing against the Salesforce Production org.

Answer: B,C

NEW QUESTION # 241
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. Create a role at top of role hierarchy and assign the role to the generic user.
- B. Create a pool of generic users and distribute the assignment of memory to the pool of users.
- C. Salesforce handles the assignment of orders automatically and there is no performance impact.
- D. Clear the role field in the generic user record.

Answer: A,D

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

NEW QUESTION # 242
Cloud Kicks needs to purge detailed transactional records from Salesforce. The data should be aggregated at a summary level and available in Salesforce.
What are two automated approaches to fulfill this goal? (Choose two.)

- A. Third-party Business Intelligence system
- B. Schedulable Batch Apex
- C. Apex Triggers
- D. Third-party Integration Tool (ETL)

Answer: B,D

NEW QUESTION # 243
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. Schedule reports that will automatically catch duplicates and merge or delete the records every week.

- C. Store all data in an external system and set up an integration to Salesforce for view -only access.
- D. Use Workflow, Validation Rules, and Force.com code (Apex) to enforce critical business processes.

Answer: A,D

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

NEW QUESTION # 244

Universal Containers (UC) manages Vehicle and Service History in Salesforce. Vehicle (Vehicle__ c) and Service History (Service-History__ c) are both custom objects related through a lookup relationship.
Every week a batch synchronization process updates the Vehicle and Service History records in Salesforce.
UC has two hours of migration window every week and is facing locking issues as part of the data migration process.
What should a data architect recommend to avoid locking issues without affecting performance of data migration?

- A. Change the lookup configuration to "Clear the value of this field" when lookup record is deleted.
- B. Insert the order in another custom object and use Batch Apex to move the records to Service_ Order__ c object.
- C. Use Bulk API serial mode for data migration
- D. Use Bulk API parallel mode for data migration

Answer: C

Explanation:

According to the official Salesforce guide1, using Bulk API serial mode for data migration can help avoid locking issues by processing batches in a single thread. This mode ensures that batches are processed in the order they are received and that only one batch is processed at a time. This reduces the risk of lock contention and deadlocks, especially when updating parent and child records in a lookup relationship. Option B is the correct answer because it suggests using Bulk API serial mode for data migration. Option A is incorrect because using Bulk API parallel mode for data migration can cause locking issues by processing batches in multiple threads. This mode does not guarantee the order of batch processing and can result in concurrent updates to the same records, which can lead to lock contention and deadlocks. Option C is incorrect because inserting the order in another custom object and using Batch Apex to move the records to Service_Order__c object adds unnecessary complexity and overhead to the data migration process. Option D is incorrect because changing the lookup configuration to "Clear the value of this field" when lookup record is deleted does not address the locking issues caused by data migration, but rather by record deletion.

NEW QUESTION # 245

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