

VIEW

Preguntas

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WHAT IS A DBA?

1. What are the primary high-level job responsibilities of a DBA?
2. What is the single biggest problem faced by organizations using relational databases?
3. What is the difference between a data administrator and a database administrator?
4. What factors determine the number of DBAs needed to support an organization's database environment properly?
5. How does new technology impact the job of the DBA?
6. Describe three kinds of DBA.
7. What is a reactive DBA?
8. What is the difference between a database architect and a system administrator?
9. Which staff member is most likely to be responsible for installing a new DBMS release?
10. What are the three types of integrity that DBAs must understand?
11. Is a certified DBA necessarily a qualified DBA? Why or why not?
12. Why must the DBA be a jack-of-all-trades?
13. Your manager ask you, as DBA, to migrate forty servers into your organization to a new dbms version during three months. What will be your behavior about this requirement?

DATABASE CHANGE MANAGEMENT?

1. The DBA is usually the initiator of database changes: True or False.
2. Why is it difficult to add a column between two existing columns in an existing table?
3. Name the three types of database comparisons that may be required in a changing database environment.
4. What is the impact of dropping a database?
5. Describe an alternative change method that can be used if your organization does not use a database change management tool.
6. Explain what is meant by the term cascading DROP.
7. Why must the DBA understand the relationship between a database change and the application changes that are needed to use the changed data?
8. Your organization does not use a tool to implement changes to database objects. You need to insert a column between the third and fourth column of a table with ten columns. Describe the preparation process you would employ to make such a change.
9. Why would a DBA want to have the capability to compare one database structure to another quickly and simply?

DATA AVAILABILITY?

1. Define what is meant by the term availability.
2. Compare and contrast performance problems with availability problems.
3. Describe three types of technology that can help to alleviate availability problems.
4. Hardware and software failures are the only causes of data unavailability: True or False.
5. What impact does corrupt and invalid data have on availability?
6. What factors contribute to the cost of downtime?
7. What is the typical cause of an unplanned outage?
8. What percentage of downtime is caused by planned outages?
9. What are nondisruptive database utilities, and why are they important for maintaining database availability?
10. What are the four (high-level) steps that can be taken to improve database availability?

PERFORMANCE MANAGEMENT

1. Define database performance.
2. During which phase of the application development life cycle is it most costly to make a change?
3. What are the three "things" that need to be addressed in database application tuning?
4. Name and describe the three steps of database performance management.
5. Discuss some of the problems involved in implementing service-level management for database applications.

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6. What two categories of database tools can be used to help deliver database performance management?
7. What is external and internal fragmentation?
8. Explain according our class when use Alter index reorganize or rebuilt.
9. Which causes index internal fragmentation?
10. Which causes index external fragmentation?

DATABASE SECURITY

1. What is the purpose of a login?
2. Explain two ways that views can be used to implement data security.
3. Once a password has been established for a login, it cannot be changed: True or False.
4. What two SQL DCL statements are used to establish and remove database privileges?
5. If a password needs to be deactivated for a period of time, but may need to be reactivated later, it can be _____ instead of _____.
6. What is a cascading REVOKE and what effect can it have on database security?
7. Is "2926Glenmore" a good password? Why or why not?
8. What is the effect of granting a privilege to PUBLIC?
9. Why is it important to protect some database resources using security mechanisms external to the DBMS?
10. Explain the purpose for creating an audit trail of database operations
11. List five common items that can be audited by DBMS audit facilities
12. the DBA should focus primarily on the data sets and files used by the DBMS. List at least five data sets to protect at the operating system or file system level

DATABASE BACKUP AND RECOVERY

1. What is the difference between a logical backup and an image copy backup?
2. Why can't standby databases, replication, or disk mirroring be used to replace traditional backup and recovery?
3. What factors determine whether a full or incremental image copy backup should be taken for a database object?
4. Name and describe the three types of database failures that may require recovery
5. What is meant by the term log archival, and why is it important to assure recoverability?
6. Name four factors that impact the duration of a recovery.
7. How frequently a database should be backed up.
8. Name two types of recovery and discuss the factors that influence when each type of recovery should be performed.

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