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Final Assignment
Final Quiz
Quiz Graded Quiz: Final Quiz
25 questions
Course Wrap Up

Graded Quiz: Final Quiz

Quiz • 2h 5m

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Due Jul 5, 11:59 PM EDT **Attempts** 3 every 24 hours

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1. In which phase of the database lifecycle does the database administrator determine the purpose and scope of the database? **0 / 1 point**

Try again

- Implementation
- Monitor and maintain
- Design and plan
- Requirements analysis

Your grade 80%

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Expand

Incorrect
Refer to the Database Management Lifecycle video.

2. There are many common database objects. Which of the following objects identifies rows in a table? **1 / 1 point**

- Keys
- Constraints
- Aliases
- Triggers

Expand

Correct
A key uniquely identifies a row in a table and enables DBAs to define relationships between tables.

3. Database installation saves the system information into files. What are these files called? **1 / 1 point**

- Parameter
- Configuration
- Column
- System

Expand

Correct
The system information is saved into files known as configuration or initialization files.

4. In the context of database storage, temperature refers to which of the following? **1 / 1 point**

- Means of configuration
- Capacity of container
- Recoverability of data
- Frequency of access

Expand

Correct
In the context of database storage, temperature refers to the frequency of data access: hot data is accessed very frequently, warm data is accessed somewhat frequently, and cold data is accessed infrequently.

5. Which of the following key considerations is perhaps the most important? **1 / 1 point**

- Validate backups
- Backup scheduling
- Secure back-up files
- Storage level snapshots

Expand

Correct
Always check that the backup file or files are valid and the restore plan is successful.

6. Transaction logs typically have which of the following characteristics? **1 / 1 point**

- Binary format
- Human readable
- No encryption
- Plain text

Expand

Correct
Many types of logs, such as diagnostic and error logs, are mostly in text format and are human readable. However, transaction logs are typically in binary formats that are sometimes encrypted and require specialized tools to format and display contents.

7. Which type of backup is simple to create and restore, but can be slow to run and results in large files? **1 / 1 point**

- Incremental
- Full
- Point-in-time
- Differential

Expand

Correct
Full backups are simple to create and restore, but can be slow to run and result in large files.

8. Assume that a particular database issue, such as extremely low drive space, would require your urgent attention should it occur. Which automated database feature should you use to inform you when this issue occurs? **1 / 1 point**

- Notifications
- Reports
- Traces
- Alerts

Expand

Correct
You should use alerts to inform you of an issue, such as extremely low drive space, that requires your urgent attention.

9. Which security method ensures that each user has the appropriate level of access to objects and data? **1 / 1 point**

- Auditing
- Encryption
- Authorization
- Authentication

Expand

Correct
Through authorization, you grant each user the appropriate permissions, or privileges, to access objects and data.

10. Which of these is NOT a decision you must make about implementing a backup plan? **1 / 1 point**

- Physical or logical backup
- Hot or cold backup
- Encryption
- Who will be responsible for the plan

Expand

Correct
As DBA, the plan will be your responsibility.

11. The principle of least privilege should be followed for all users, groups, and roles. Which of the following describe this principle? **1 / 1 point**

- Groups and roles with same privileges
- Separate accounts with fewer privileges
- Fewer, granular groups and roles
- Multiple, more granular groups or roles

Expand

Correct
Ensure groups and roles don't have permissions that most members of that group or role don't need.

12. Which of the following statements can you use to remove privileges granted to a user? **1 / 1 point**

- UPDATE
- DELETE
- REVOKE
- GRANT

Expand

Correct
You can use the REVOKE statement to remove privileges granted to a user.

13. Which storage engine available in MySQL is suitable for most data storage needs? **1 / 1 point**

- CSV
- MyISAM
- BLACKHOLE
- InnoDB

Expand

Correct
InnoDB is suitable for most data storage needs and is MySQL's default storage engine.

14. What do some RDBMSs use to audit database activity? **0 / 1 point**

- Logs
- Triggers
- Tables
- Flags

Expand

Incorrect
Please review the Auditing Database Activity video.

15. What is the simplest form of encryption? **1 / 1 point**

- Symmetric encryption
- Transparent data encryption
- Full disk encryption
- Asymmetric encryption

Expand

Correct
The simplest form of encryption is symmetric encryption because in symmetric encryption, the same key is used to encrypt and decrypt the data.

16. What is the main difference between symmetric and asymmetric encryption? **1 / 1 point**

- Advanced encryption
- Data encryption standard
- Shared keys
- Number of keys

Expand

Correct
Symmetric encryption uses the same key for encryption and decryption. Asymmetric encryption uses a public key for encryption and a private key for decryption.

17. What does database throughput measure? **0 / 1 point**

- Which transactions are consuming the most resources
- How well the system is responding to inbound requests
- Active network connections
- The work done by your database

Expand

Incorrect
Please review the Monitoring Usage and Performance video.

18. Which log is most useful for troubleshooting database problems? **1 / 1 point**

- User session log
- Query log
- Diagnostic log
- Database transaction log

Expand

Correct
The diagnostic log is a record of significant events and errors in chronological order and is very useful for diagnosing or troubleshooting problems.

19. Which tool can you use to monitor your database in real-time? **1 / 1 point**

- Monitoring snapshots
- Monitoring tables
- Event monitors
- System monitors

Expand

Correct
You can use monitoring table functions to monitor your database operations in real-time.

20. What is the process of monitoring database changes to quickly identify weak links and performance issues? **1 / 1 point**

- Database configuration check
- Alert log file cleanup
- Schema object check
- Data dictionary check

Expand

Correct
A schema object check is the process of monitoring your database changes to quickly identify the weak links and problematic queries.

21. In MySQL, what does the OPTIMIZE TABLE command do? **1 / 1 point**

- Reorganizes physical storage of table data
- Shows a checksum for the contents of a table
- Fixes a possibly corrupted table
- Generates statistics about a table's data

Expand

Correct
The OPTIMIZE TABLE command reorganizes the physical storage of table data and associated index data. This reorganization reduces storage space and improves I/O efficiency when accessing the table.

22. There are a few core principles to consider when designing indexes. Which core principle involves knowing size of the data sets that the database will contain? **1 / 1 point**

- Understand the characteristics of the columns.
- Understand the most frequently used queries.
- Understand the indexing options for better performance.
- Understand how the database will be used.

Expand

Correct
When designing an index, one of the core principles you should consider is to understand how the database will be used. For example, consider if you will use the database for storing and retrieving large data sets.

23. Which of the following actions might fix an issue with server configuration? **0 / 1 point**

- Changing database indexing as needed
- Updating the client's connection driver
- Adding more physical RAM
- Increasing the number of allowed connections

Expand

Incorrect
Refer to the Troubleshooting Common Issues video.

24. In an SQL server, when is an error log created? **0 / 1 point**

- When the SQL server experiences an error
- When the SQL server starts
- When the SQL server shuts down
- When the SQL server receives an administrator request

Expand

Incorrect
Refer to the Using Status Variables, Error Codes, and Documentation video.

25. Which of the following are basic ethical concepts that support good data security practices? Select the three choices that apply. **1 / 1 point**

- Efficiency
- Consent

Correct
You should get clear consent from data owners before you collect their data. This agreement should detail what data you will be allowed to collect and how you will be allowed to use it.

- Transparency

Correct
When you collect data, you should be transparent about what data you will collect, what you will do with the data, who will have access to the data, how you will store the data, and how you will dispose of the data when finished with it.

- Integrity

Correct
Be clear about your procedures and policies and follow them consistently. As far as you can, ensure that others in your organization also follow the correct procedures and policies.

Expand

Correct
Great, you got all the right answers.