

⚠ Try again once you are readyGrade
received **76%**Latest Submission
Grade 76%To pass 80% or
higher[Try again](#)

1. Which of the database life cycle phases is typically where DBAs check for authorized user access to databases?

1 / 1 point

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

[↶ ↷ Expand](#) **Correct**

DBAs ensure that only authorized users are allowed to access the system in this phase.

2. Which of the following database objects defines a set of actions performed in response to an insert, update, or delete on a specified table?

1 / 1 point

- ☒ Trigger
- ☐ Index
- ☐ Constraint
- ☐ Event

[↶ ↷ Expand](#) **Correct**

A trigger defines a set of actions performed in response to an insert, update, or delete on a specified table.

3. Database installation saves the system information into files. What are these files called?

1 / 1 point

- ☒ Configuration
- ☐ Column
- ☐ System
- ☐ Parameter

[↶ ↷ 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

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

[↶ ↷ 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. What is one advantage of physical backups over logical backups?

1 / 1 point

- ☐ Physical backups enable you to backup granular objects.
- ☒ Physical backups are often smaller and quicker.
- ☐ Restoring physical backups usually allows you to reclaim wasted space.
- ☐ You can restore physical backups on a very different system.

 Expand



Correct

Physical backups are often smaller and quicker than logical backups, making logical backups useful for large or important databases that require fast recovery times.

6. You can use transaction logs for which of the following purposes?

1 / 1 point

- ☐ Configuration
- ☐ Compression
- ☐ Encryption
- ☒ Recovery

 Expand



Correct

You can use transaction logs to recover databases in case of a system failure, disk corruption, or accidental deletion.

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

- ☐ Point-in-time
- ☐ Incremental
- ☐ Differential
- ☒ Full

 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, should it occur, is important but does not require your immediate attention. Which automated database feature should you use to inform you when this issue occurs?

1 / 1 point

- ☐ Alerts
- ☐ Traces
- ☒ Notifications
- ☐ Reports

 Expand



Correct

You should use notifications to inform you of an issue that is important but does not require your

immediate attention such as failed login attempts.

9. Which security method verifies that users are who they say they are?

1 / 1 point

- ☐ Authorization
- ☒ Authentication
- ☐ Auditing
- ☐ Encryption

 Expand

 **Correct**

Authentication is a process of verifying that users are who they claim to be. For example, an authentication system may validate credentials such as username and password.

10. When creating a backup and restore policy, you must determine an appropriate schedule. Which of the following factors should impact your decision regarding this schedule?

0 / 1 point

- ☐ Time of day that users commonly access the data
- ☐ Use of manual or automated backup
- ☒ Impact of data loss on your business
- ☐ Sensitivity and proprietary nature of the data

 Expand

 **Incorrect**

Refer to the Backup Policies video.

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

- ☐ Fewer, granular groups and roles
- ☐ Separate accounts with fewer privileges
- ☐ Groups and roles with same privileges
- ☒ 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. The GRANT connect statement connects a user or group to a database. What else does the GRANT statement do?

0 / 1 point

- ☐ Grant user permissions to create objects
- ☐ Add privileges
- ☒ Delete
- ☐ Reject

 Expand

 **Incorrect**

Please review the Managing Access to Databases and Their Objects video.

13. Which of these is NOT a common command for managing storage engines in MySQL?

0 / 1 point

- ☐ CREATE ENGINE
- ☒ CREATE TABLE
- ☐ ALTER TABLE
- ☐ SHOW ENGINES

[Expand](#)

 **Incorrect**

Please review the MySQL Storage Engines reading.

14. What do some RDBMSs use to audit database activity?

1 / 1 point

- ☒ Triggers
- ☐ Tables
- ☐ Logs
- ☐ Flags

[Expand](#)

 **Correct**

Some RDBMS's use triggers.

15. Which type of encryption uses a public and a private key?

1 / 1 point

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

[Expand](#)

 **Correct**

Asymmetric encryption, also known as public key encryption, uses a public key and a private key. You encrypt the data with the public key and valid users have a unique matching private key to decrypt it.

16. What is the main difference between symmetric and asymmetric encryption?

0 / 1 point

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

[Expand](#)

 **Incorrect**

Please review the Encrypting Data video.

17. What does database throughput measure?

1 / 1 point

- ☐ How well the system is responding to inbound requests
- ☐ Which transactions are consuming the most resources
- ☐ Active network connections

- ☒ The work done by your database

[Expand](#)



Correct

Database throughput indicates how much total work is being taken on by your database and is typically measured by the number of queries executed per second.

18. Which MySQL server log records connections and queries received from clients?

1 / 1 point

- ☒ General query log
- ☐ Error log
- ☐ Relay log
- ☐ Slow query log

[Expand](#)



Correct

The general query log records connections and queries received from clients.

19. Database performance baselines are recorded performance metrics taken at regular intervals for a given time period. Which of the following can be determined by using a database performance baseline?

1 / 1 point

- ☒ Average response time for queries and batch commands
- ☐ Time of backups
- ☐ Average number of users
- ☐ Cost of cloud services

[Expand](#)



Correct

Performance baselines help you find typical response times for running queries and processing batch commands.

20. Database automation works best with which types of administrative tasks?

1 / 1 point

- ☒ Time-consuming and repetitive tasks
- ☐ Quick and varied tasks
- ☐ Quick and repetitive tasks
- ☐ Time-consuming and varied tasks

[Expand](#)



Correct

Database automation works best with tasks that are time-consuming yet repetitive such as database health checks.

21. In MySQL, what does the OPTIMIZE TABLE command do?

1 / 1 point

- ☐ Fixes a possibly corrupted table
- ☒ Reorganizes physical storage of table data
- ☐ Shows a checksum for the contents of a 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 what data type is contained in the index?

0 / 1 point

- ☐ Determine best location to store index
- ☒ Understand how database is used
- ☐ Understand the most frequently used queries
- ☐ Understand characteristics of columns

 Expand



Incorrect

Please review the Using Indexes video.

23. Which of the following actions might fix an issue with server configuration?

1 / 1 point

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

 Expand



Correct

One action that might fix a server configuration issue is to add more physical RAM or increase the memory assigned to the server.

24. Which of the following SQL server logs shows informational and error events?

0 / 1 point

- ☒ Trace log
- ☐ Error log
- ☐ Event log
- ☐ Object log

 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

☒ 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.

☐ 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.

[↗ Expand](#)

✓ **Correct**

Great, you got all the right answers.