1.	In which phase of the database lifecycle does the database administrator work on logical and physical design?	1/1 point
	Monitor and maintain Design and plan	
	Requirements analysis	
	O Implementation	
	∠ ⁷ Expand	
	Orrect In the design and plan stage, database administrators work on logical and physical design.	
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? Trigger Index Event Constraint	0/1 point
	∠ [≯] Expand	

3.	Which of the following statements is correct about modifying the configuration of a cloud-based relational database?	1 / 1 point
	You need to modify the configuration files directly.	
	You can safely discard the configuration files after modifying them.	
	You must use the command line to modify the configuration.	
	You can modify the configuration while the service is running.	
	∠ [≯] Expand	
	Correct One advantage of cloud-based systems is that you can scale many configuration options through a graphical interface as the service is running. You don't have to edit configuration files.	
4.	In the context of database storage, temperature refers to which of the following?	1/1 point
4.	In the context of database storage, temperature refers to which of the following? Capacity of container	1/1 point
4.		1/1 point
4.	Capacity of container	1/1 point
4.	Capacity of container Means of configuration	1/1 point
4.	Capacity of container Means of configuration Frequency of access	1/1 point
4.	Capacity of container Means of configuration Frequency of access Recoverability of data	1/1 point

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.	
	You can restore physical backups on a very different system.	
	Restoring physical backups usually allows you to reclaim wasted space.	
	∠ [™] 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.	What does a database management system (DBMS) use transaction logs to do?	1/1 point
	Monitor other logs in the system	
	Keep track of all the users that access the database	
	Record system or hardware failures	
	Keep track of all transactions that change or modify the database	
	∠ [™] Expand	
	Correct A database management system (DBMS) uses transaction logs to keep track of all transactions that change or modify the database.	

7.	What is one advantage of differential backups over full backups?	1/1 point
	○ Simpler restore method	
	Quicker backup process	
	Better file integrity	
	Greater data security	
	∠ [™] Expand	
	 Correct Differential backups are quicker to run than full backups, but the restore process can take longer. 	
8.	Which of the following is true?	1 / 1 point
8.	Which of the following is true? You cannot automate using a graphic user interface.	1 / 1 point
8.		1 / 1 point
8.	You cannot automate using a graphic user interface.	1/1 point
8.	You cannot automate using a graphic user interface. You can configure the content of a report, but the frequency is always the same.	1/1 point
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9.	Which security method verifies that users are who they say they are?	1/1 point
	Authentication Authorization	
	Encryption Auditing	
	∠ [≯] 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.	. Which of these is NOT a decision you must make about implementing a backup plan?	0/1 point
	Hot or cold backup	
	Physical or logical backup	
	Who will be responsible for the plan	
	○ Encryption	
	∠ ⁷ Expand	

11. The principle of least privilege should be followed for all users, groups, and roles. Which of the following describe this principle?	0 / 1 point
Multiple, more granular groups or roles	
Separate accounts with fewer privileges	
Groups and roles with same privileges	
Fewer, granular groups and roles	
∠ [¬] Expand	
12. The GRANT connect statement connects a user or group to a database. What else does the GRANT statement do?	1 / 1 point
Add privileges	
Reject	
Grant user permissions to create objects	
O Delete	
∠ [¬] Expand	
Correct You can also use the GRANT statement to grant privileges to create objects in a database.	

13. Which storage engine available in MySQL is suitable for most data storage needs?	1/1 point
BLACKHOLE	
○ csv	
■ InnoDB	
○ MyISAM	
∠ [≯] Expand	
Correct InnoDB is suitable for most data storage needs and is MySQL's default storage engine.	
14. Which of the following is an action you can take to help you identify potential future attacks, such as brute force attempts, on your system?	1/1 point
Implementing strong encryption for all data	
Using data masking to anonymize user data	
Testing and monitoring the security of applications	
Tracking failed attempts to access the database	
∠ [™] Expand	
Correct You should track failed attempts to access the database, as these can help you to identify potential attacks, such as brute force attempts, on your system.	

15. Which type of encryption uses a public and a private key?	1/1 point
Symmetric encryption Transparent data encryption Full disk 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?	1/1 point
○ Shared keys	1/1 point
Shared keys Advanced encryption	1 / 1 point
○ Shared keys	1/1 point
Shared keys Advanced encryption Number of keys	1/1 point
 Shared keys Advanced encryption Number of keys Data encryption standard 	1/1 point

17. Which level of database monitoring is often the most misleading?	1/1 point
O Platform	
O Infrastructure	
User	
Query	
∠ ⁷ Expand	
Correct If users are not reporting any issues, you might assume everything is working properly. However, just because users aren't noticing or reporting an issue doesn't mean an issue doesn't exist or won't arise soon. Therefore, the user level is often misleading.	
18. Which log is most useful for troubleshooting database problems?	1 / 1 point
Database transaction log	
Ouery log	
Diagnostic log	
O User session 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?	0 / 1 point
 Monitoring snapshots Event monitors Monitoring tables System monitors 	
∠ [™] Expand	
Incorrect Refer to the Overview of Database Monitoring video.	
20. What is the automated database task that determines how efficient the database system is?	1 / 1 point
O Database configuration check	
○ Trace file cleanup	
Database health check	
○ Schema object check	
∠ [™] Expand	
Correct The database health check is the process of inspecting a database system to determine the system's health and efficiency.	

21. In MySQL, what does the OPTIMIZE TABLE command do?	1/1 point
Reorganizes physical storage of table data	
Fixes a possibly corrupted table	
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	1/1 point
data type is contained in the index?	171 point
Understand characteristics of columns	
Understand how database is used	
Understand the most frequently used queries	
Oetermine best location to store index	
∠ [?] Expand	
✓ Correct Knowing what kind of data columns will contain can help you choose an appropriate index type.	

23. Server configuration issues can severely effect performance and operations. Which of the following issues can	1/1 point
require software patches?	
Improper storage configuration	
Bugs in OS or RDBMS	
Out of disk space	
Oisk fragmentation	
∠ [™] Expand	
Bugs can result in errors and crashes, so regularly apply software patches and security updates.	
24. In an SQL server, when is an error log created?	1/1 point
When the SQL server shuts down	
When the SQL server receives an administrator request	
When the SQL server experiences an error	
When the SQL server starts	
∠ [™] Expand	
○ Correct	
The error log is created every time that SQL is started.	

25. What is compliance?	/ 1 point
Making sure your data will fit into your planned database	
 Making sure your database practices follow all applicable laws, regulations, and industry standards 	
Using secure archiving	
Adhering to transparent practices	
∠ Expand	

Failure to comply can result in data insecurity, professional censure for your organization, and even legal

⊘ Correct