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Grade received 80%

₹ Evnand

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Go to next item

In which phase of the database lifecycle does the database administrator determine the purpose and scope of the database?	1/1point
Requirements analysis	
○ Implementation	
Design and plan	
Monitor and maintain	
∠ <sup>A</sup> Expand	
Correct In the requirements analysis stage, database administrators determine the purpose and scope of the database by interviewing data users and producers, examining the data, and creating samples.	
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
Constraint	
Trigger	
Event	
○ Index	
<ul> <li>Correct         A trigger defines a set of actions performed in response to an insert, update, or delete on a specified table.     </li> <li>What is the first step to modify the configuration of an on-premises relational database?</li> <li>Stop the database service.</li> <li>Start the database service.</li> <li>Monitor the configuration settings.</li> <li>Modify the configuration file.</li> </ul>	0/1 point
<b>4.</b> A storage group is a grouping of storage paths or containers based on which of the following?	0/1 point
Performance	
Age	
Capacity	
Name	

Incorrect     Refer to the Database Storage video.	
What is one advantage of logical backups over physical backups?	1 / 1 poi
Logical backups are useful for large databases that require fast recovery times.	
O Logical backups create copies of all the data files and directories.	
Logical backups allow you to recreate the database on another system.	
O Logical backups are often smaller and quicker.	
<sub>∠</sub> <sup>ス</sup> Expand	
A logical backup creates a file containing DDL and DML commands that recreate the objects and data in the database. With this file, you can recreate the database on the same or another system.	
Transaction logs typically have which of the following characteristics?	1 / 1 poi
No encryption Human readable	
Binary format	
Plain text	
2	
∠ <sup>™</sup> Expand	
<b>⊘</b> 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.	
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tou snoutu use alerts to inform you of an issue, such as extremely low unive space, that requires your urgent attention. 9. Which security method verifies that users are who they say they are? 1/1 point Encryption Authorization Authentication Auditing Expand 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 1/1 point factors should impact your decision regarding this schedule? Impact of data loss on your business Time of day that users commonly access the data O Use of manual or automated backup O Sensitivity and proprietary nature of the data ∠ Expand **⊘** Correct To determine an appropriate backup schedule, consider when users commonly access the data. For example, if your data is mainly accessed during the working day in one time zone, you should schedule your backup outside of those hours. 11. What do database groups and database roles have in common? 1/1 point O Both are exempt from the principle of least privilege. Both allow for only a limited number of users at a time. Both grant users full access to the data by default. Both confer privileges and access rights to all users within a given category. Expand **⊘** Correct Database groups and database roles are similar in that they both confer privileges and access rights to all users within the group or role, respectively. 12. Which of the following statements can you use to remove privileges granted to a user? 1/1 point ○ UPDATE ○ GRANT REVOKE O DELETE Expand

**⊘** Correct

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

13. In MySQL, you can use which command to specify a different default storage engine?	1/1 point
SET	
RESET	
○ ALTER	
FLUSH	
∠ <sup>7</sup> Expand	
Correct In MySQL, you can use the SET command to specify a different default storage engine.	
, - (2),	
14. What do some RDBMSs use to audit database activity?	1 / 1 point
○ Tables	
O Logs	
Flags	
<ul><li>Triggers</li></ul>	
∠ <sup>∧</sup> Expand	
⊙ Correct	
Some RDBMS's use triggers.	
<b>15.</b> Which type of encryption uses a public and a private key?	1/1 point
Symmetric encryption	
Asymmetric encryption	
Full disk encryption	
Transparent data encryption	
∠ <sup>7</sup> Expand	
<b>⊘</b> 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.	
<b>16.</b> In which form of encryption is encryption and decryption invisible to users because the database handles both tasks?	1 / 1 point
Transparent data encryption	
Advanced encryption	
Asymmetric encryption	
○ Symmetric encryption	
∠ <sup>≯</sup> Expand	
<ul><li>✓ Correct</li></ul>	
Many modern databases support transparent data encryption, or TDE. In TDE, the database engine encrypts and decrypts the data, so neither task is visible to users.	

Platform	
○ Infrastructure	
① User	
Query	
∠ <sup>7</sup> Expand	
∠ Expand	
<b>⊘</b> 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.	
To specify the type of information that an error log will store, database administrators use the log_err_verbosity	1 / 1 poir
option to set the server verbosity level to 1, 2, or 3. What type of information will an error log store at a server verbosity level of 3?	
Warnings and notes only	
○ Errors only	
Errors, warnings, and notes	
Errors and warnings only	
∠ <sup>7</sup> Expand	
O compt	
<b>⊘</b> Correct	
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Shows a checksum for the contents of a table Generates statistics about a table's data Fixes a possibly corrupted table	
∠ <sup>n</sup> Expand	
Correct The OPTIMIZE TABLE command reorganizes the physical storage of table data and associat This reorganization reduces storage space and improves I/O efficiency when accessing the	
22. There are a few core principles to consider when designing indexes. Which core principle involves data type is contained in the index?	s knowing what 0/1 point
Understand characteristics of columns	
Understand the most frequently used queries	
O Determine best location to store index	
Understand how database is used	
∠ <sup>n</sup> Expand	
23. Server configuration issues can severely effect performance and operations. Which of the following require software patches?  Improper storage configuration  Out of disk space  Bugs in OS or RDBMS  Disk fragmentation	ng issues can 1/1 point
<ul> <li>✓ Correct         Bugs can result in errors and crashes, so regularly apply software patches and security upd     </li> </ul>	ates.
<b>24.</b> Which of the following SQL server logs shows informational and error events?	1/1 point
Object log	
C Error log	
○ Trace log	
Event log	
∠ <sup>™</sup> Expand	
♥ Correct     The event log shows informational and error events.	
<b>25.</b> Which of the following are basic ethical concepts that support good data security practices? Selec	ct the three 1/1 point
choices that apply.	
✓ 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.

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.

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



**⊘** Correct

Great, you got all the right answers.