





- 1. What is the first step you should take when facing a MySQL connection issue?
 - A) Restart the MySQL server
 - B) Ignore the issue, it will resolve on its own
 - C) Reinstall MySQL
 - D) Check the network cables

Answer: A) Restart the MySQL server

- 2. Which command is used to check the MySQL server status?
 - A) SHOW STATUS
 - B) CHECK SERVER
 - C) STATUS SERVER
 - D) DISPLAY STATUS

Answer: A) SHOW STATUS

- 3. What does the term "SQL Injection" refer to in MySQL?
 - A) A way to inject data into a table
 - B) A method to inject code into SQL statements
 - C) A type of error in MySQL syntax
 - D) A security feature in MySQL

Answer: B) A method to inject code into SQL statements



- 4. How can you optimise a slow-performing MySQL query?
 - A) Increase the number of records in the table
 - B) Use the LIMIT clause
 - C) Use appropriate indexes
 - D) Delete unnecessary tables

Answer: C) Use appropriate indexes

- 5. What is the purpose of the EXPLAIN statement in MySQL?
 - A) To display the execution plan of a query
 - B) To explain complex SQL concepts
 - C) To create an explanation for a table
 - D) To show the structure of a database

Answer: A) To display the execution plan of a query

- 6. When would you use the UNION operator in MySQL?
 - A) To join two tables
 - B) To combine the result sets of two SELECT statements
 - C) To create a subquery
 - D) To delete duplicate records

Answer: B) To combine the result sets of two SELECT statements



- 7. Explain the concept of database normalisation and its importance.
 - A) Reducing data redundancy and improving data integrity
 - B) Increasing data redundancy and improving data integrity
 - C) Improving data redundancy and reducing data integrity
 - D) Having no impact on data redundancy or integrity

Answer: A) Reducing data redundancy and improving data integrity

- 8. What is a stored procedure in MySQL, and how does it differ from a regular SQL query?
 - A) A stored procedure is a type of table, and it is the same as a regular SQL query.
 - B) A stored procedure is a set of SQL statements with a specific name, and it can be reused.
 - C) A stored procedure is used only for data retrieval, unlike regular SQL queries.
 - D) A stored procedure cannot have parameters, unlike regular SQL queries.

Answer: B) A stored procedure is a set of SQL statements with a specific name, and it can be reused.



- 9. How can you prevent and handle deadlocks in MySQL?
 - A) Increase the transaction isolation level
 - B) Ignore deadlocks, as they are unavoidable
 - C) Use proper indexing
 - D) Use the ROLLBACK statement

Answer: C) Use proper indexing

- 10. What is the purpose of the MySQL SHOW WARNINGS command?
 - A) To display warning messages during the current session
 - B) To hide warnings from the server log
 - C) To show information about database errors
 - D) To list all users with warning status

Answer: A) To display warning messages during the current session

- 11. When facing a MySQL syntax error, what is a common troubleshooting step?
 - A) Restarting the MySQL server
 - B) Ignoring the error, as it will resolve on its own
 - C) Checking the syntax of the SQL statement
 - D) Reinstalling MySQL

Answer: C) Checking the syntax of the SQL statement



- 12. Explain the purpose of MySQL's binary log and how it can aid in issue resolution.
 - A) The binary log records SQL statements for backup purposes and can be used for point-in-time recovery.
 - B) The binary log is used to store only binary data, not SQL statements.
 - C) The binary log is unrelated to issue resolution in MySQL.
 - D) The binary log is a log of all failed login attempts.

Answer: A) The binary log records SQL statements for backup purposes and can be used for point-in-time recovery.

- 13. What is a deadlock, and how does it differ from a regular lock in MySQL?
 - A) A deadlock is a situation where two or more transactions cannot proceed because each is waiting for the other to release a lock, while a regular lock is a single transaction holding a lock.
 - B) A deadlock is a normal part of MySQL transactions, and it is the same as a regular lock.
 - C) A deadlock only occurs when there is a hardware failure, whereas a regular lock is a software-based mechanism.
- D) A deadlock is a lock that never gets released, unlike a regular lock. Answer: A) A deadlock is a situation where two or more transactions cannot proceed because each is waiting for the other to release a lock, while a regular lock is a single transaction holding a lock.



14. How can you monitor and optimise MySQL performance over time?

- A) By running the OPTIMISE PERFORMANCE command regularly
- B) By using the Performance Schema and monitoring tools
- C) By increasing the size of the InnoDB buffer pool
- D) By disabling the query cache

Answer: B) By using the Performance Schema and monitoring tools

15. Explain the concept of query caching in MySQL and its potential impact on performance.

- A) Query caching is the process of saving query results so that identical queries can be retrieved faster, potentially improving performance.
- B) Query caching only impacts read operations, not write operations.
- C) Query caching has no impact on MySQL performance.
- D) Query caching is the same as indexing.

Answer: A) Query caching is the process of saving query results so that identical queries can be retrieved faster, potentially improving performance.



16. What does the term "MySQL Replication" refer to?

- A) A method to replicate the entire database on a remote server
- B) Copying and distributing data from one database to another
- C) An error in MySQL syntax
- D) Ignoring MySQL issues for later resolution

Answer: B) Copying and distributing data from one database to another

17. Explain the purpose of the MySQL CHECK TABLE statement.

- A) To perform a syntax check on the table definition
- B) To check and repair table corruption
- C) To create a new table with specific constraints
- D) To check the status of the MySQL server

Answer: B) To check and repair table corruption

18. What is the significance of the InnoDB storage engine in MySQL, and how does it differ from MyISAM?

- A) InnoDB is primarily for read-heavy workloads, while MyISAM is optimised for write-heavy workloads.
- B) InnoDB supports transactions and foreign keys, whereas MylSAM does not.
- C) MyISAM is the default storage engine, and InnoDB is used only for specific cases.
- D) InnoDB and MyISAM have no differences in terms of functionality.

Answer: B) InnoDB supports transactions and foreign keys, whereas MylSAM does not.



19. What command would you use to grant SELECT privileges on a specific table in MySQL?

- A) GRANT SELECT ON table_name TO user_name
- B) ALLOW SELECT ON table_name FOR user_name
- C) SELECT GRANT ON table_name BY user_name
- D) GRANT ALL PRIVILEGES TO user_name

Answer: A) GRANT SELECT ON table_name TO user_name

20. How does MySQL handle transactions, and what is the purpose of the COMMIT statement?

- A) MySQL does not support transactions, and the COMMIT statement is not used.
- B) MySQL uses the COMMIT statement to begin a new transaction.
- C) MySQL automatically commits every SQL statement, and the COMMIT statement is unnecessary.
- D) MySQL uses the COMMIT statement to make changes made during a transaction permanent.

Answer: D) MySQL uses the COMMIT statement to make changes made during a transaction permanent.