

A large, abstract orange graphic that resembles a stylized letter 'P' or a brain shape. It features a network of thin white lines connecting various points, with several question marks of different sizes scattered throughout. A dark grey/black rounded rectangle is overlaid on the left side of this graphic.

SQL Query

Interview Questions

1. What is the primary purpose of a database in MySQL?

- A) Store and organise data
- B) Create graphical interfaces
- C) Manage user interfaces
- D) Execute commands
- **Answer: A) Store and organise data**

2. Which command is used to create a new database in MySQL?

- A) ADD DATABASE
- B) CREATE DATABASE
- C) NEW DATABASE
- D) INSERT DATABASE
- **Answer: B) CREATE DATABASE**

3. Can a MySQL database name start with a number?

- A) Yes
- B) No
- C) Only if it ends with a letter
- D) Only if it is all in uppercase
- **Answer: B) No**

4. How can you view the list of tables in a MySQL database?

- A) SHOW TABLES;
- B) LIST TABLES;
- C) VIEW TABLES;
- D) SELECT * FROM TABLES;
- **Answer: A) SHOW TABLES;**

5. What is the default character set for MySQL databases?

- A) UTF-8
- B) ASCII
- C) Latin1
- D) UTF-16
- **Answer: A) UTF-8**

6. How do you drop a database in MySQL?

- A) DELETE DATABASE [database_name];
- B) REMOVE DATABASE [database_name];
- C) DROP DATABASE [database_name];
- D) ERASE DATABASE [database_name];
- **Answer: C) DROP DATABASE [database_name];**

7. In MySQL, what does the term "Collation" refer to?

- A) The size of the database
- B) The sorting and comparison rules for character data
- C) The number of tables in a database
- D) The number of columns in a table
- **Answer: B) The sorting and comparison rules for character data**

8. How do you create a database with a specific character set and collation in MySQL?

- A) `CREATE DATABASE [database_name] CHARSET = 'utf8' COLLATE 'utf8_general_ci';`
- B) `CREATE DATABASE [database_name] CHARACTER SET = 'utf8' COLLATE 'utf8_general_ci';`
- C) `SET COLLATION 'utf8_general_ci' FOR DATABASE [database_name];`
- D) There is no need to specify character set and collation during database creation
- **Answer: B) `CREATE DATABASE [database_name] CHARACTER SET = 'utf8' COLLATE 'utf8_general_ci';`**

9. What is the purpose of the MySQL IF EXISTS clause when dropping a database?

- A) It checks if the database exists before dropping
- B) It drops the database only if it contains tables
- C) It is used for conditional dropping based on a specified condition
- D) There is no IF EXISTS clause in MySQL
- **Answer: A) It checks if the database exists before dropping**

10. How can you create a backup of a MySQL database before dropping it?

- A) Use the BACKUP command
- B) Copy the database files manually
- C) Export the database to a file
- D) There is no need to back up before dropping
- **Answer: C) Export the database to a file**

11. What is the purpose of the DESCRIBE statement in MySQL?

- A) Display information about a database
- B) Create a new database
- C) Delete a database
- D) Update database records
- **Answer: A) Display information about a database**

12. Which SQL statement is used to delete a database?

- A) REMOVE DATABASE [database_name];
- B) DELETE DATABASE [database_name];
- C) DROP DATABASE [database_name];
- D) ERASE DATABASE [database_name];
- **Answer: C) DROP DATABASE [database_name];**

13. How can you set the default character set for a MySQL database during creation?

- A) SET CHARACTER SET 'utf8' FOR DATABASE [database_name];
- B) CREATE DATABASE [database_name] DEFAULT CHARACTER SET 'utf8';
- C) ALTER DATABASE [database_name] SET CHARACTER SET 'utf8';
- D) No need to specify; it is set automatically
- **Answer: B) CREATE DATABASE [database_name] DEFAULT CHARACTER SET 'utf8';**

14. What happens if you try to drop a non-existing database in MySQL without using IF EXISTS?

- A) It throws an error
- B) It prompts for confirmation
- C) It drops the database
- D) It checks if the database exists before dropping
- **Answer: A) It throws an error**

15. Explain the significance of the FOREIGN KEY constraint in MySQL tables.

- A) It ensures that all values in a column are unique
- B) It establishes a link between two tables based on a column
- C) It automatically increments the values in a column
- D) It sets a default value for a column
- **Answer: B) It establishes a link between two tables based on a column**

16. How can you create a MySQL database without specifying a character set or collation?

- A) CREATE DATABASE [database_name] DEFAULT CHARACTER SET NULL;
- B) CREATE DATABASE [database_name] CHARACTER SET = ";
- C) CREATE DATABASE [database_name];
- D) CREATE DATABASE [database_name] CHARSET = 'default';
- **Answer: C) CREATE DATABASE [database_name];**

17. When dropping a database, what is the purpose of the RESTRICT option in MySQL?

- A) It restricts access to the database
 - B) It restricts the drop operation if there are active connections
 - C) It restricts dropping databases with foreign key constraints
 - D) There is no RESTRICT option in MySQL
- Answer: B) It restricts the drop operation if there are active connections

18. What is the role of the CHECKSUM option in the CREATE DATABASE statement?

- A) It calculates the checksum for the entire database
- B) It ensures data consistency within the database
- C) It is used to verify the integrity of the database backup
- D) There is no CHECKSUM option in the CREATE DATABASE statement

Answer: C) It is used to verify the integrity of the database backup

19. How can you view the structure of a MySQL table within a database?

- A) SHOW TABLE STRUCTURE;
- B) DESCRIBE TABLE;
- C) DISPLAY TABLE;
- D) SELECT * FROM INFORMATION_SCHEMA.COLUMNS WHERE TABLE_NAME = 'your_table';

Answer: B) DESCRIBE TABLE;

20. What is the purpose of the INFORMATION_SCHEMA database in MySQL?

- A) It stores user accounts and privileges
- B) It contains system information about the database server
- C) It is used for creating and managing databases
- D) There is no INFORMATION_SCHEMA database in MySQL

Answer: B) It contains system information about the database server