

# sql1

1. **\*\*What is SQL Injection? How does it work?\*\*** ■
2. **\*\*What are the different types of SQL Injection?\*\*** ■
  - Classic SQLi ■
  - Blind SQLi ■
  - Time-based SQLi ■
  - Error-based SQLi ■
3. **\*\*How can you prevent SQL Injection in an application?\*\*** ■
4. **\*\*What are prepared statements and how do they help prevent SQL Injection?\*\*** ■
5. **\*\*What role does input validation play in preventing SQL attacks?\*\*** ■
6. **\*\*How does a Web Application Firewall (WAF) help prevent SQL Injection?\*\*** ■
7. **\*\*What is parameterized querying? Provide an example in SQL.\*\*** ■
8. **\*\*Can you explain the difference between White-listing and Black-listing input validation?\*\*** ■
9. **\*\*What is the impact of SQL Injection on a database?**■
10. **\*\*What are the best practices for securing a database?\*\*** ■
11. **\*\*How do you implement Role-Based Access Control (RBAC) in SQL?\*\*** ■
12. **\*\*What is the principle of Least Privilege in database security?\*\*** ■
13. **\*\*How can you restrict user permissions in SQL?\*\*** ■
14. **\*\*What are stored procedures, and how do they help in security?\*\*** ■
15. **\*\*How do you audit user activities in a database?\*\*** ■
16. **\*\*What are SQL GRANT and REVOKE statements? How are they used?\*\*** ■
17. **\*\*What is Database Encryption? What are the types of encryption in SQL databases?\*\*** ■
18. **\*\*How do Transparent Data Encryption (TDE) and Column-Level Encryption work?\*\*** ■
19. **\*\*How can you prevent privilege escalation in SQL?\*\*** ■
20. **\*\*What is Data Masking, and how is it used in SQL databases?\*\*** ■
21. **\*\*What is the difference between hashing and encryption in database security?\*\*** ■
22. **\*\*How do GDPR and HIPAA regulations impact database security?\*\*** ■
23. **\*\*What is SQL Database Auditing? Why is it important?\*\*** ■
24. **\*\*How can you detect suspicious activities in an SQL database?\*\*** ■
25. **\*\*What are database security best practices for cloud-based databases?\*\*** ■
26. **\*\*How do you prevent unauthorized access to database backups?\*\*** ■
27. **\*\*What is the difference between database-level and application-level security?\*\*** ■
28. **\*\*What is a Man-in-the-Middle (MITM) attack in SQL? How do you prevent it?\*\*** ■
29. **\*\*What is a Timing Attack, and how can it be used in SQL?\*\*** ■
30. **\*\*What is a NoSQL Injection? How does it differ from SQL Injection?\*\*** ■
31. **\*\*How do you protect a database from insider threats?\*\*** ■