**Interview Questions:**

**SQL :**

36. What is the role of SQL in web development? How does SQL interact with backend technologies like PHP, Python, or Node.js?

37. Explain the difference between a stored procedure and a function in SQL. When would you use each one?

38. Discuss the benefits and drawbacks of using SQL triggers. Provide examples of scenarios where triggers are useful.

39. Describe the concept of data manipulation language (DML) in SQL. How does it differ from data definition language (DDL)?

40. Explain the purpose of SQL views. How are views used to simplify complex queries and improve database performance?

41. Discuss the role of SQL in business intelligence and data analysis. How can SQL queries be used to extract insights from large datasets?

42. Describe the concept of data replication in SQL. How is data replication used to improve data availability and reliability?

43. Explain the role of SQL in transaction management. How does SQL ensure data consistency and reliability in transactional systems?

44. Discuss the importance of database normalization in SQL. How can normalization help improve database performance and reduce data redundancy?

45. Describe the process of database optimization in SQL. What techniques can be used to improve query performance and reduce resource usage?

46. Explain the concept of SQL injection. How can SQL injection attacks be prevented in web applications?

47. Discuss the role of SQL in cloud computing. How are cloud databases like Amazon RDS or Azure SQL Database managed using SQL?

48. Describe the concept of data warehousing in SQL. How does data warehousing differ from traditional relational databases?

49. Explain the purpose of SQL stored procedures. How are stored procedures used to encapsulate business logic and improve application performance?

50. Discuss the role of SQL in data governance and compliance. How can SQL queries be audited and monitored to ensure data security and regulatory compliance?