1. **Explain the different data types available in SQL.**
2. **What is a view in SQL, and why would you use it? Provide an example of creating a view.**
3. **What are cross joins in SQL? How do they differ from other types of joins, and when would you use them? Provide an example.**
4. **What is the difference between a primary key and a unique key in SQL? Can a table have multiple unique keys? Explain with an example.**
5. **Discuss the role of the CASE statement in SQL. Provide an example of using CASE to return custom output based on column values.**
6. **Explain how indexing works in SQL. What are the benefits and drawbacks of using indexes?**
7. **How do foreign keys maintain referential integrity in SQL databases? Provide an example of how a foreign key works across two related tables.**
8. **What is a stored procedure in SQL? Provide an example of how to create and execute a stored procedure.**
9. **Explain the concept of normalization in database design. What are the advantages of normalizing a database?**
10. **How would you optimize an SQL query for better performance? Provide several techniques used in query optimization.**
11. **Describe the difference between UNION and UNION ALL. Provide an example where each would be used.**
12. **What are the ACID properties of a transaction in SQL? Provide an example of a transaction that demonstrates these properties.**
13. **What is joins? Types of joins with example?**