Database Awareness Session:

1. What databases did you use, and do you know?
2. MySQL vs PostgreSQL (Why Do Developers Choose One Over the Other?)
   1. Which is reach with many features
   2. complicated query
   3. Robust
   4. Faster in terms of read/write operations
   5. Faster in terms of implementation and configuration, and read-only
   6. faster when dealing with massive datasets, complicated queries, and read-write operations
3. OLTP vs OLAP
   1. Online Transaction Processing
   2. Online Analytical Processing
4. SQL vs NoSQL
   1. Memcached, Redis
   2. MongoDB
5. What are DDL, DML, and DCL in SQL?
6. Normalization
7. Database Storage engines
8. How to select a database for such cases?
   1. Banking
   2. ERP
   3. E-commerce
   4. Social media
   5. IoT
   6. Market Analysis
9. High availability architecture
10. Load balancing scenarios
11. Data migration scenarios
12. Migration vs synchronization
13. Migration tools in Cloud platforms (Google and Alibaba)
14. Physical vs logical backup
15. DR and RTO vs RPO
16. Database Sharding
17. database architecture
18. SQL vs T-SQL vs PLSQL vs PGSQL
19. Use cases used for SQLite
20. What does ACID mean in Database Systems?
21. The ACID Consistency Model:

ACID (Atomicity, Consistency, Isolation, Durability)

1. The BASE Consistency Model [Data Consistency Models: ACID vs. BASE Databases Explained (neo4j.com)](https://neo4j.com/blog/acid-vs-base-consistency-models-explained/)
2. Object RDMS vs RDMS
3. Graph Databases for Beginners: Why Graph Technology Is the Future [Graph Databases for Beginners: An Introduction to Graph Databases (neo4j.com)](https://neo4j.com/blog/why-graph-databases-are-the-future/?ref=blog)