MySQL Complete Master Guide (Beginner → Expert)

1. Introduction

SQL manages structured data stored in relational databases.

2. SQL Categories

DDL, DML, DCL, TCL explained.

3. Data Types

Covers all MySQL data types in detail.

4. CRUD

INSERT, SELECT, UPDATE, DELETE examples.

5. WHERE

Filtering using logical + comparison operators.

6. JOINS

INNER, LEFT, RIGHT, CROSS, SELF, FULL via UNION.

7. Aggregation

GROUP BY, HAVING, multi-level grouping.

8. Subqueries

Correlated, nested, WHERE, FROM, SELECT.

9. Views

Advantages + use-cases.

10. Indexing

B-Tree, FullText, Hash, Composite indexing.

11. Transactions

ACID, isolation levels, locks, deadlocks.

12. Stored Procedures

IN, OUT, loops, conditions.

13. Triggers

Audit triggers + automation.

14. Functions

Built-in + user-defined.

15. Window Functions

ROW_NUMBER, RANK, LAG, LEAD.

16. Optimization

EXPLAIN, schema design, indexing strategy.

17. Normalization

1NF, 2NF, 3NF with examples.

18. Partitioning

Range, List, Hash partitioning.

19. ER Diagrams

Entities, relationships, cardinality.

20. Security

GRANT, REVOKE, roles.

SQL Interview Cheat Sheet

- Avoid SELECT * in production.

- Use indexes on filtering columns.

- Normalize for integrity; denormalize for analytics.

- Always check EXPLAIN before optimizing queries.

- Use LIMIT with ORDER BY for pagination.

- Avoid correlated subqueries when JOIN works.

- Use transactions for financial operations.

- Keep VARCHAR lengths optimal.

- Prefer INT for primary keys.

100 SQL Interview Questions with Answers

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