SQL + JavaScript Mastery Roadmap (6 Months)

📌SQL Roadmap

Phase 1: Basics (Day 1–20)

- **Topics:** SELECT, WHERE, ORDER BY, Aggregates, Joins, Subqueries
- **Resources:**
- [Mode SQL Tutorial](#)
- [SQL Joins Visual Guide](#)
- [LeetCode Database](#)

Phase 2: Advanced SQL (Day 21–40)

- **Topics:** Window Functions, CTEs, Views, Transactions, Triggers
- **Resources:**
- [Mode Window Functions](#)
- [PostgreSQL CTE Docs](#)

Phase 3: Optimization (Day 41–60)

- **Topics:** Indexes, Execution Plans, Join Algorithms, Query Optimization
- **Resources:**
- [Use the Index, Luke!](#)
- [Stanford CS145](#)
- [Postgres Explain Visualizer](#)

Phase 4: Internals (Day 61–90)

- **Topics:** Execution Lifecycle, Storage Engines, WAL, MVCC, Distributed SQL
- **Resources:**
- [CMU DB Course](#)
- [Postgres MVCC Docs](#)
- [Modern SQL Tutorial](#)

📌JavaScript Roadmap

Phase 1: Fundamentals (Day 1–30)

- **Topics:** Variables, Functions, Scope, Prototypes, DOM, Events
- **Resources:**
- [Eloquent JavaScript](#)
- [MDN JS Guide](#)

Phase 2: Advanced JS (Day 31–90)

- **Topics:** Closures, Execution Context, Event Loop, Async/Await, Proxies
- **Resources:**
- JavaScript.info
- You Don't Know JS (Book)

Phase 3: JS Internals (Day 91–180)

- **Topics:** V8 Engine, Memory Management, AST, JIT, Browser & Node.js Internals
- **Resources:**
- V8 Blog
- Event Loop Explained (Jake Archibald)
- Node.js Event Loop Docs

✅Use this roadmap to track daily progress (you can tick off completed topics and add notes as you go).