Database Selection as per Project

Project	Database Chosen	Advantages	Disadvantages
E-commerce Website	MySQL / PostgreSQL	✓ Strong consistency ✓ Easy handling of catalogs/orders ✓ Mature ecosystem ✓ ACID compliance	✗ Harder to scale horizontally ✗ Slow with very large data ✗ Schema changes costly
Real-time Chat App	MongoDB	✓ Flexible schema ✓ Great for unstructured data ✓ High write performance ✓ Easy scaling	✗ Eventual consistency ✗ Difficult joins ✗ Weak for complex transactions
Banking / Financial System	Oracle / PostgreSQL / MS SQL Server	✓ Strong consistency & security ✓ Complex transactions supported ✓ Proven reliability ✓ Compliance ready	✗ Expensive ✗ Complex to manage ✗ Scaling requires sharding/distribution
IoT & Sensor Data	InfluxDB / Cassandra	✓ Optimized for time-series ✓ High-volume writes ✓ Good scalability ✓ Time-based querying	✗ Not suited for relational data ✗ Needs time-series schema expertise ✗ Smaller ecosystem
Social Media Platform	Neo4j + Cassandra	✓ Perfect for relationships ✓ Scales for billions of posts ✓ Fast connected data queries	✗ Managing multiple DBs complex ✗ Requires graph query knowledge ✗ Higher infra costs
CMS / Blog	MySQL / PostgreSQL	✓ Easy structured content mgmt ✓ Works with frameworks ✓ Stable & mature	✗ Scaling large CMS needs caching ✗ Less flexible with frequent schema changes