Warehousing and SQL Concepts 🏛️

🔹 Data Warehousing Basics 🗄️

- Centralized storage for structured data.
- Used for analytics and reporting.
- Supports OLAP (Online Analytical Processing).

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🔹 SQL Query Optimization 🚀

- Reducing query execution time.
- Optimizing SELECT, JOIN, and WHERE clauses.
- Using EXPLAIN PLAN to analyze queries.

🔹 Indexing and Partitioning 📌

- Indexing speeds up searches.
- Partitioning divides large tables for better performance.
- Types: Range, List, Hash, and Composite partitioning.

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Optimization & Vacuums ⚙️

🔹 Query Performance Tuning 🎯

- Eliminating unnecessary computations.
- Using proper indexing and partitioning.
- Avoiding SELECT * and optimizing JOINs.

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🔹 Data Compaction & Vacuuming 🧹

- Removes deleted or obsolete data.
- Reduces storage size and improves performance.
- In databases like PostgreSQL, VACUUM reclaims space.

🔹 Caching Strategies 🔄

- Storing frequently accessed data in memory.
- Reducing redundant computations.
- Using materialized views and query caching.

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