**ideal index for data warehouses**

An **ideal index for data warehouses** should be **efficient, scalable, space-saving, and optimized for OLAP workloads**.

It should support **multidimensional queries**, offer **low update overhead**, and integrate well with **query optimization techniques** to enhance performance.

**1. Efficient Query Performance**

**2. Space Efficiency**

**3. Low Update Overhead**.

**4. Support for Multidimensional Queries**

**5. High Read Performance (Optimized for OLAP Workloads)**

**6. Scalability**

**7. Flexibility & Adaptability**

* Supports both **star schema and snowflake schema** indexing.

**8. Parallel Processing & Prefetching Capabilities**

**9. Index Maintenance & Degeneration Handling**

**10. Compatibility with Data Warehouse Optimizations**