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Introduction to Data Migration

Master the essentials of data migration for seamless database transitions.

DEFINITION

Data migration is the process of transferring data between storage systems or formats. It is crucial for upgrading systems, consolidating data, or moving to the cloud.

KEY CONCEPTS

Types of Migration

Data migration can be classified into several types, including storage migration, database migration, and application migration.

Migration Strategy

A well-defined migration strategy outlines the steps, tools, and timelines necessary for successful data transfer.

Data Integrity

Ensuring data integrity means verifying that data remains accurate and consistent during and after the migration process.

Testing and Validation

Post-migration testing is essential to confirm that the data has been transferred correctly and is functioning as intended.

Downtime Management

Planning for downtime is important to minimize disruption during the migration process, especially for critical systems.

EXAMPLES

- Migrating customer data from an old CRM to a new one.
- Transferring a database from on-premises servers to cloud storage.
- Consolidating multiple databases into a single unified system.

MEMORY TIPS

- ★ Think 'Migrate' like 'Move' - both involve transferring something from one place to another.
- ★ Use the acronym 'DIME' - Data Integrity, Migration Strategy, Execution to remember key aspects.
- ★ Visualize a 'Data Road Trip' where data travels safely to its new destination.

COMMON MISTAKES

- ✗ Neglecting to back up data before migration.
- ✗ Overlooking data compatibility issues between old and new systems.
- ✗ Failing to conduct thorough testing after migration.

QUICK RECAP

Data migration is essential for transferring data between systems effectively. Key aspects include understanding types of migration, ensuring data integrity, and planning for downtime. Always test and validate after migration to ensure success.