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Introduction to Data Migration

Mastering Data Migration: Essential for Database Management Success

DEFINITION

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

KEY CONCEPTS

Types of Migration

Includes big bang migration, where all data is moved at once, and trickle migration, which transfers data in phases.

Data Mapping

The process of matching fields from the source database to the target database to ensure data integrity.

Data Quality

Ensuring data is accurate, complete, and consistent before and after migration to avoid issues.

Testing

Conducting tests post-migration to verify that data has been accurately transferred and is functional.

Downtime Management

Planning for system downtime during migration to minimize disruption to users and business operations.

EXAMPLES

→ Migrating customer data from an old CRM to a new one.

→ Transferring data from on-premises servers to cloud storage.

→ Upgrading a database system from SQL Server 2016 to SQL Server 2022.

MEMORY TIPS

★ Remember 'Big Bang' for all-at-once migrations and 'Trickle' for phased migrations.

★ Use 'Map' to recall the importance of data mapping in migration.

★ Think 'Quality Check' to emphasize data quality before and after migration.

COMMON MISTAKES

✗ Neglecting to back up data before migration.

✗ Overlooking data mapping, leading to mismatched fields.

✗ Failing to test the migrated data thoroughly.

QUICK RECAP

Data migration is essential for transferring and upgrading data systems. Key aspects include understanding migration types, ensuring data quality, and conducting thorough testing. Avoid common pitfalls like neglecting backups and data mapping.