

CptS 415 Big Data

Relational DBMS

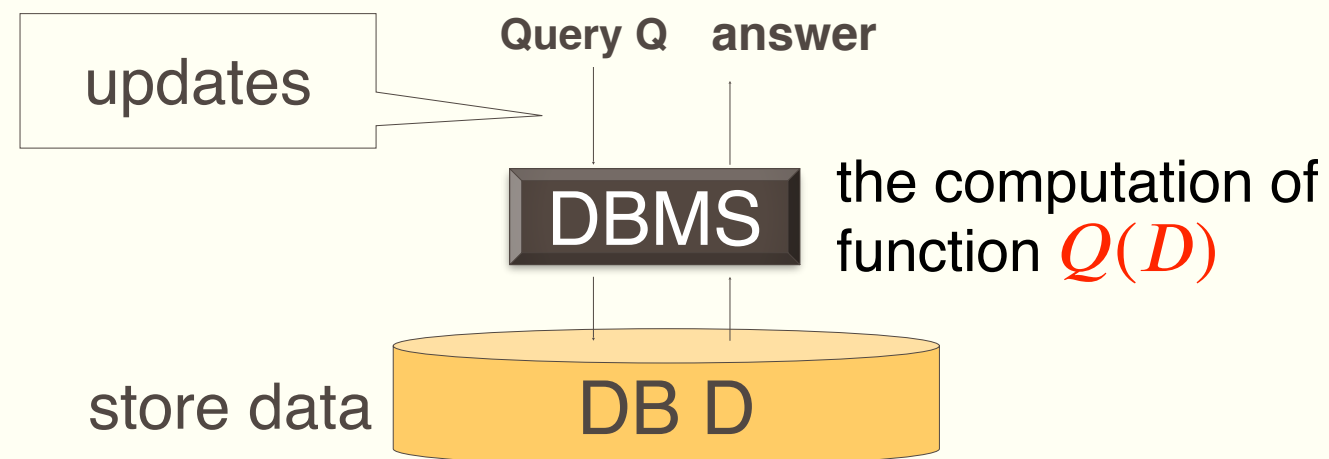
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Database Management System (DBMS)

- Database
 - A collection of data containing information about one or more relations
- DBMS
 - A software package designed to store and manage databases



Why DBMS?

- Query:
 - Ability to efficiently retrieve or update data using a simple query language
- Scale:
 - Ensure data can scale to large volumes over time
- Availability / Durability:
 - Ability to manage backups and restore to ensure high availability of data
- Access Management:
 - Ability to set different permissions for different users of data and DBMS

Popular Relational DBMS

- Enterprise:
 - Oracle
 - Microsoft SQL Server
 - IBM DB2
- Open Source:
 - MySQL
 - PostgreSQL
 - MariaDB

Relational DBMS Topics

