

CSharp Question:

01: Basic

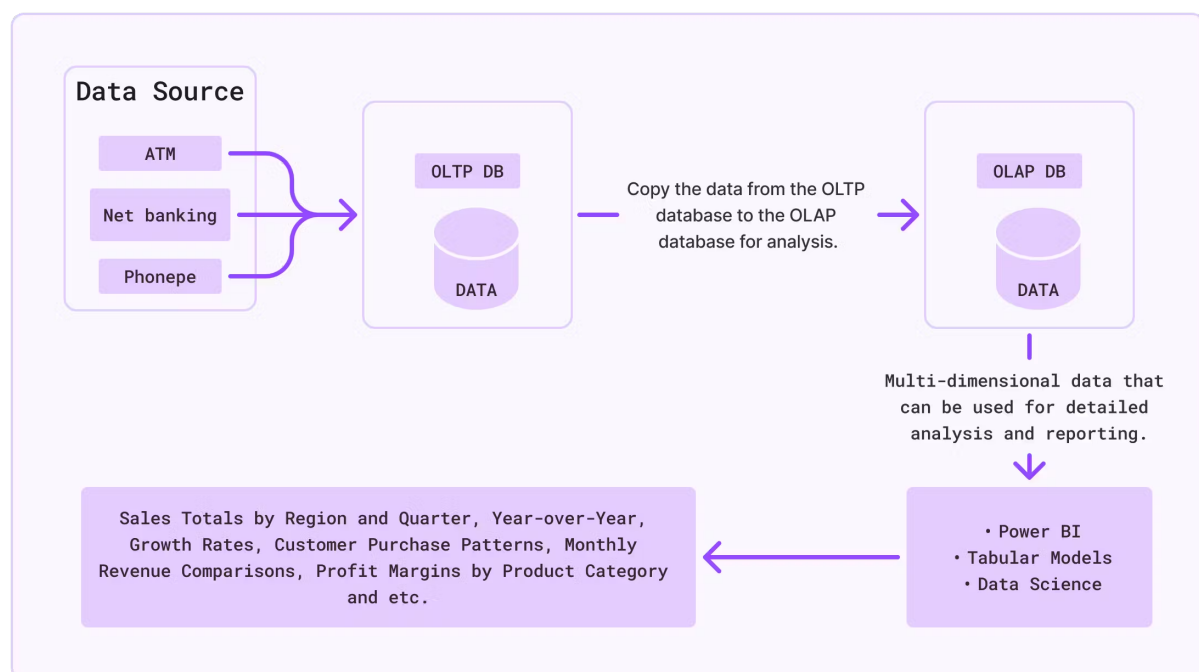
- ► What is SQL Server?
- ► What is Database (DB)

Types of Databases

- ► What are the two main types of databases?
- ► What is the key difference between OLTP and OLAP databases?
- ► What are the basic day-to-day operations on a database?
- ► How do organizations use OLTP and OLAP databases?

Difference between OLTP and OLAP Databases

- ► Diagram?

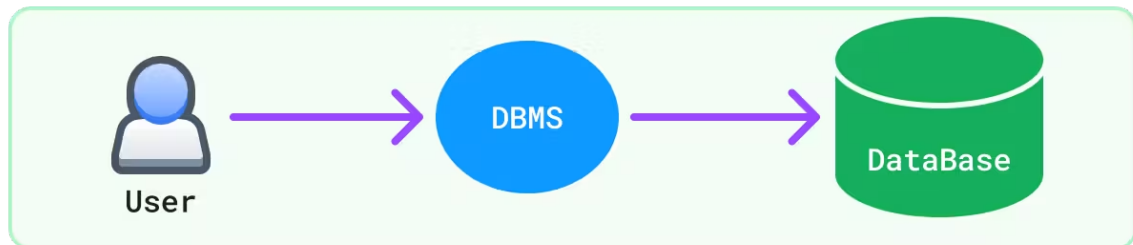


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- ► What is the main purpose of OLTP and OLAP databases?
 - ► How do OLTP and OLAP databases differ in their data operations?
 - ► What type of data volume do OLTP and OLAP databases handle?
 - ► What is the difference in data structure between OLTP and OLAP databases?
 - ► What types of queries are used in OLTP and OLAP databases?
 - ► How is performance optimized in OLTP and OLAP databases?
 - ► Can you give examples of OLTP and OLAP databases?
 - ► Who are the typical users of OLTP and OLAP databases?
 - ► What is the nature of transactions in OLTP and OLAP databases?
 - ► How critical is data integrity in OLTP and OLAP databases?

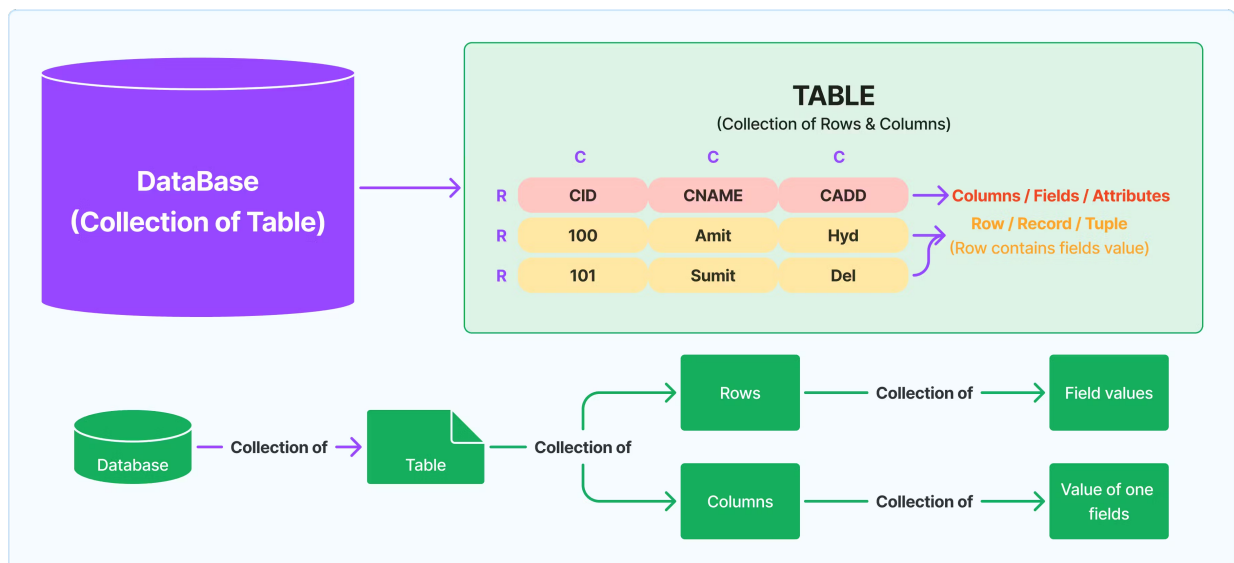
- ► What is the typical response time for OLTP and OLAP databases?

Database Management Systems (DBMS)

- ► What is a Database Management System (DBMS)?
- ► Diagram?



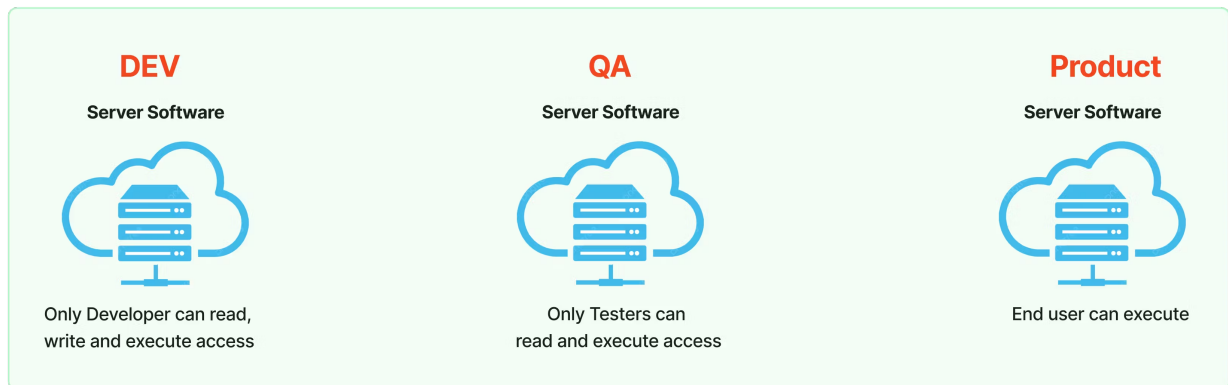
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- ► What are the main types of DBMS?
 - ► What is RDBMS (Relational Database Management System)?
 - ► Give some important rules of 12 Codd's rules of an RDBMS
 - ► Diagram?



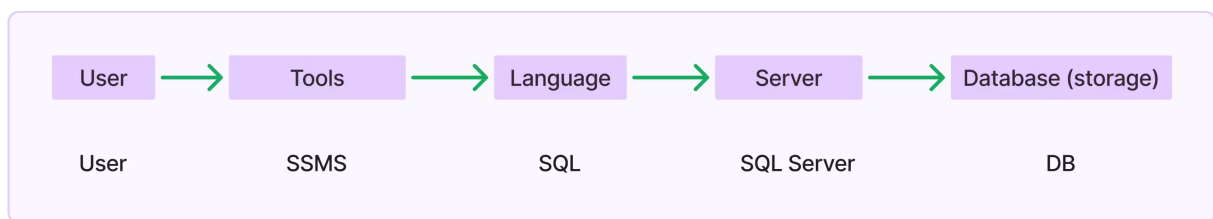
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- ► What are the key features of an RDBMS?
 - ► What are the ACID properties in RDBMS?
 - ► What are some examples of RDBMS software?
 - ► What are NoSQL databases?
 - ► What is ORDBMS (Object Relational Database Management System)?
 - ► What is SQL Server?
 - ► What are some examples of databases?

Database Development Life Cycle and SQL Server

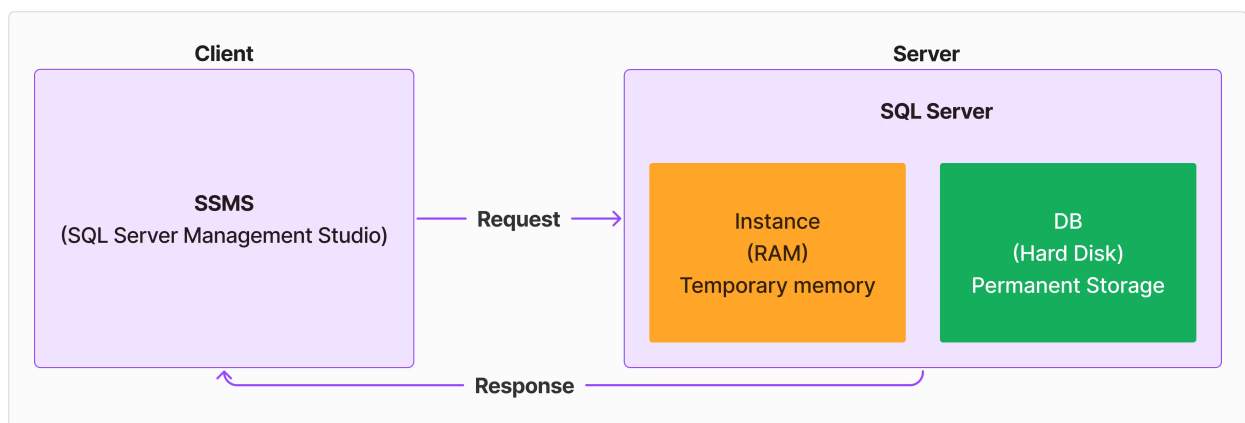
- ► What is the Database Development Life Cycle?
- ► What are the roles of a Developer and a DBA in the database development process?
- ► DBA's or Developer, who can Access, Read and update?



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- ► What are the different versions of SQL Server?
 - ► What is the Client-Server Architecture in SQL Server?



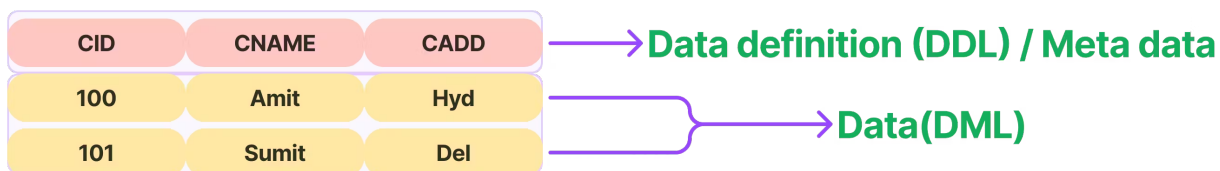
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- ► Diagram?



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- ► What is SQL (Structured Query Language)?



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