

SQL Notes

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January 27, 2024

Contents

1	Database Basics	3
1.1	Databases	3
1.2	Database Management Systems	3
1.3	Relational Database Management Systems	3

1 Database Basics

1.1 Databases

Database: A collection of data stored in a format that can easily be accessed.

1.2 Database Management Systems

Database Management System (DBMS): Software used to manage databases. It receives instructions and executes them, sending results back.

Two categories of DBMS

1. Relational: Data is stored in tables that are linked together by relationships. SQL is the language used to work with relational DBMS.
2. Non-Relational (noSQL): No tables or relationships. NoSQL systems don't understand SQL (they have their own language).

1.3 Relational Database Management Systems

Relational Database Management System (RDBMS): Software used to manage relational databases.

Popular RDBMS

1. MySQL
2. SQL Server
3. Oracle

While each RDBMS is very similar to each other, they do have differences.