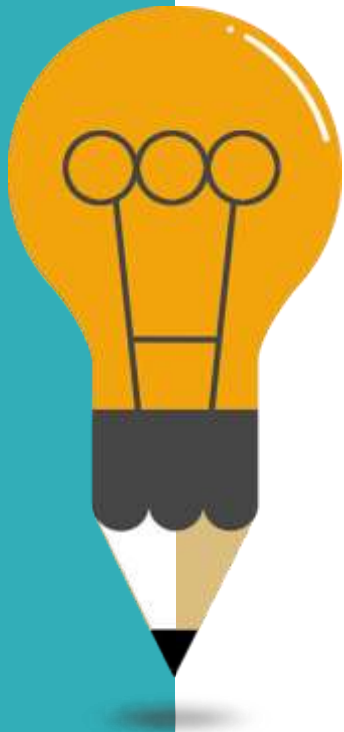


SQL ve MongoDB

# Plan



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# INTRODUCTION TO SQL

SQL Databases are typically used as Relational Databases. In addition to high-performance analytics, they provide various features for accessing, adding, managing, and processing data. It is a Database system that is easy to use , contains robust classification features, and offers, uncomplicated reliability

# SQL Data types

SQL data types define the type of value that can be stored in a table column. For example, if you want a column to store only integer values, you can define its data type as INT.

SQL data types can be broadly divided into the following categories:

- **Numeric data types such as:** INT, TINYINT, BIGINT, FLOAT, REAL, etc.
- **Date and Time data types such as:** DATE, TIME, DATETIME, etc.
- **Character and String data types such as:** CHAR, VARCHAR, TEXT, etc.
- **Unicode character string data types such as:** NCHAR, NVARCHAR, NTEXT, etc.
- **Binary data types such as:** BINARY, VARBINARY, etc.
- **Miscellaneous data types** - CLOB, BLOB, XML, CURSOR, TABLE, etc.

# Features of SQL

In general, SQL functions offer many features.

- A sql operation can easily be implemented using SQL procedural language statements and features, which allow you to integrate control-flow logic into conventional static and dynamic SQL statements.
- A SQL function is usually more reliable than an equivalent external function.
- Provide input parameters.
- Scalar SQL functions return numerical values.

# Introduction to MongoDB

it's an open-source, NoSQL document database. It is popularly used in conjunction with Amazon Web Services, Azure, and other data sources for application development and ongoing operation.

In simple terms, MongoDB is a document-oriented database. This open source product is developed .

# MongoDB data types

MongoDB is a non-relational document database that provides support for JSON-like storage. The MongoDB database has a flexible data model that enables you to store unstructured data, and it provides full indexing support, and replication with rich and intuitive APIs.

- an example of a JSON-like document in a MongoDB database:

```
{  
  company_name: "ACME Limited Foodstuffs",  
  address: {street: "1212 Main Street", city: "Springfield"},  
  phone_number: "1-800-0000",  
  industry: ["food processing", "appliances"] type: "private", number_of_employees: 987  
}
```

# Features of MongoDB

There are the following features of MongoDB:

- There are multiple search options in MongoDB, including field, range, and regular expression Categories.
- Any area can index documents.
- A load balancing configuration is automatically implemented because the data is split into shards
- It provides tools for map reduction and aggregation
- The code is written in JavaScript instead of procedures



# MongoDB ve SQL

