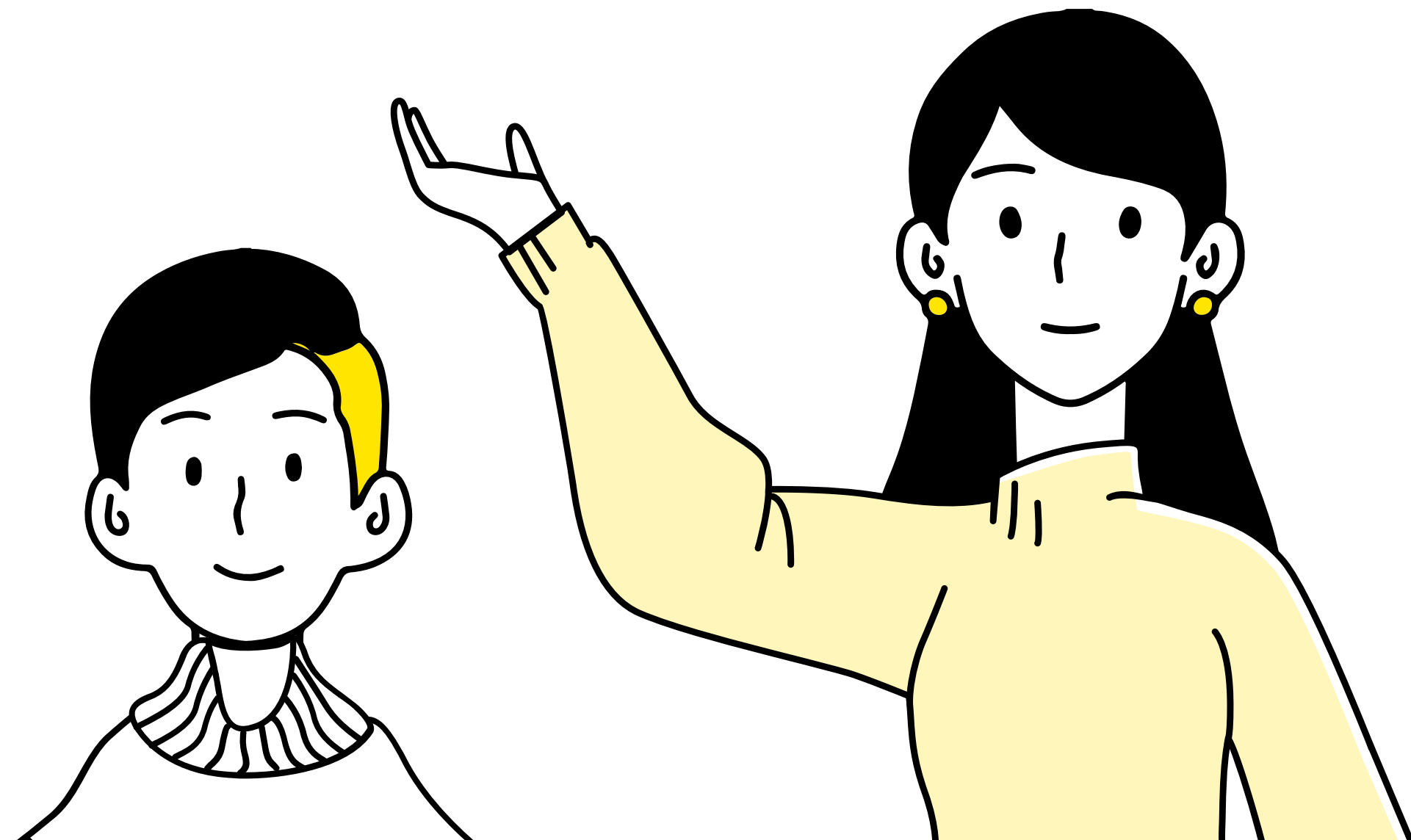
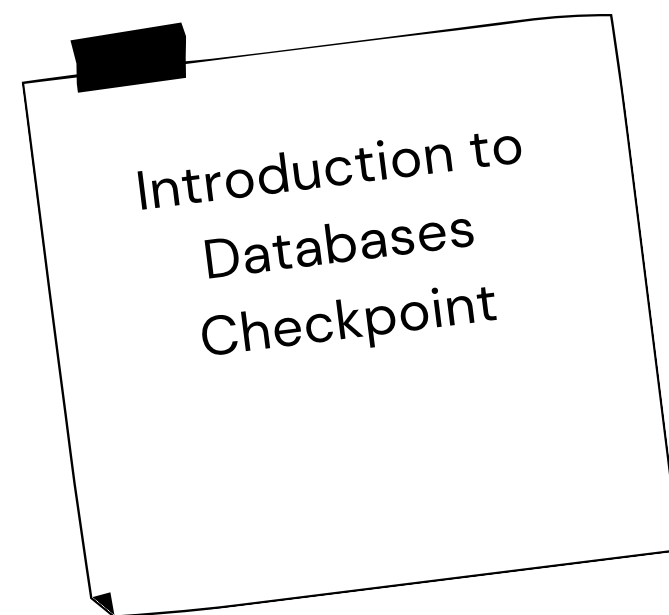


NoSQL to SQL.



Introduction

1

Introduction to MongoDB and SQL

2

Briefly introduce both MongoDB and SQL.

3

Mention that MongoDB is a NoSQL database, and SQL refers to a group of relational database management systems (RDBMS).

MongoDB Features



1

Document-oriented database

3

Supports JSON-like documents

5

Horizontal scalability through sharding

2

No predefined schema .

4

Excellent for handling unstructured or semi-structured data

SQL Features



1

Relational database management system (RDBMS)

3

Strict data integrity constraints

5

Vertical scalability through normalization

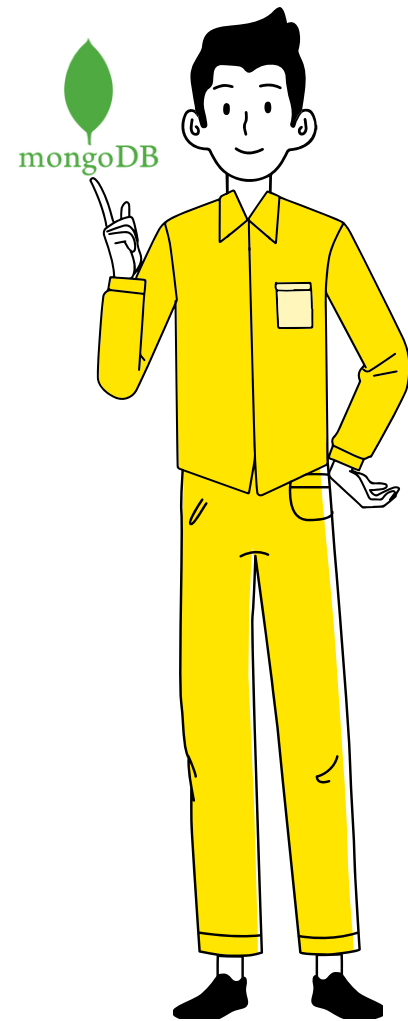
2

Table-based structure with a predefined schema

4

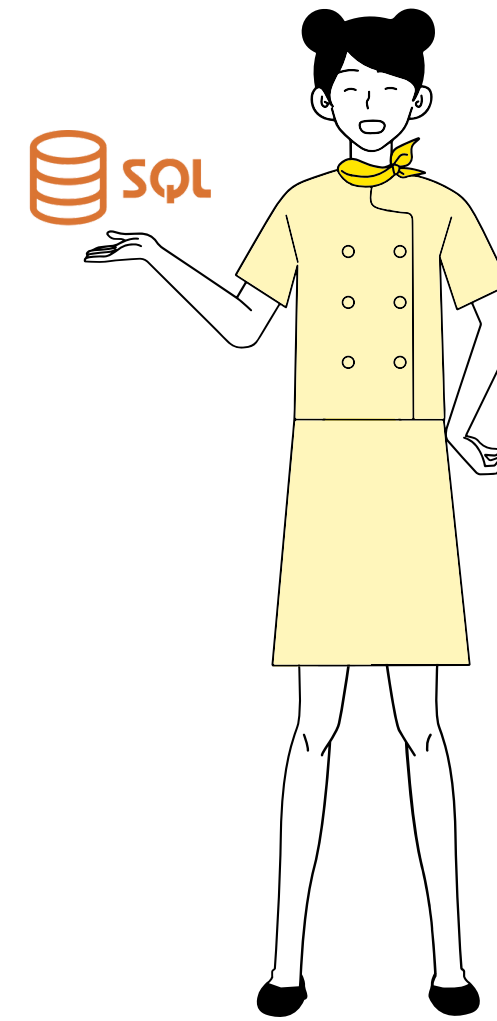
Excellent for structured and tabular data

Comparison



MongoDB:

- Well-suited for projects with evolving or undefined schemas
- Ideal for scenarios requiring high scalability and flexibility
- Commonly used in content management systems and real-time big data applications



SQL:

- Best fit for projects with a stable and well-defined schema
- Widely used in traditional business applications and financial systems
- Suitable for applications where data integrity and relationships are critical

Comparison – Scalability and Performance

MongoDB:



- Horizontal scalability through sharding for distributing data across multiple servers
- Efficient for read and write operations in large-scale distributed environments

SQL:



- Vertical scalability by adding more resources to a single server
- Typically strong in complex query optimization and transactions

Merci !

