

Mongo DB

Duration: 6 hours :

Data - Models :

Principles of schema design

Designing an e-commerce data model

Schema basics

Users and orders

Reviews

On databases, collections, and documents

Databases

Collections

Documents and insertion

Aggregation :

Aggregation framework overview :

E-commerce aggregation example

Products, categories, and reviews

User and order

Aggregation pipeline operators

\$project

\$group

\$match,

\$sort,

\$skip,

\$limit

\$unwind

\$out

Reshaping documents:

String functions

Arithmetic functions

Date functions

Logical functions

Set Operators

Miscellaneous functions

Understanding aggregation pipeline performance

Users and orders

MongoDB's query language

Aggregation pipeline options:

The aggregation framework's

allowDiskUse option

Aggregation cursor option

Other Aggregation capabilities:

.count() and .distinct()

map-reduce

Indexing and query optimization :

Indexing theory

A thought experiment

Core indexing concepts

B-trees

Indexing in practice

Index types

Index administration

Query optimization

Identifying slow queries

Examining slow queries

Query patterns