

CASSANDRA

COURSE SYLLABUS

Introduction to NoSQL and Apache Cassandra

Why NoSQL?

Relational DB vs. NoSQL?

Type of NoSQL Databases

CAP Theorem and Tunable Consistency

Advantages of NoSQL

Where does Cassandra fit in?

ACID vs BASE

Getting Started Apache Cassandra

Apache Cassandra Setup

Important Configuration

Basic CLI Commands

Cassandra Keyspace and Column Family

Writing and Reading Data

Key Concepts (Key Space, Column Family, Super Column etc.)

[Column Options\(Column Sorting, Super Columns\)](#)

[Rows Options\(Wide Rows, Skinny Rows\)](#)

[Distributed and Decentralized](#)

Data Modelling

[Differences between RDBMS and CASSANDRA](#)

[Query Language](#)

[Indexes](#)

[Sorting](#)

[Design Patterns](#)

[Materialized Views](#)

[Programmatically Defining Keyspaces and Column Families](#)

[Building a Cluster](#)

[Backup and Restore](#)

[Performance Tuning](#)

Cassandra Query Language

[Data modeling](#)

[Indexing](#)

[Data Definition](#)

[Data Manipulation](#)



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Queries