

Neo4j Graph Database : Course Details

Day 1

Graph Database

- Normal DB Transactions
- Graph Theory
- Graph DB
- Relational DB
- NoSQL DB

Neo4j

- Why use?
- Cypher
- Browser
- Usage
- Indexes
- Caching
- Extending Neo4j

Using Cypher

- Nodes
- Properties
- Relationships

- Use of Browser
- REST API

Handling Cypher Query

- Create
- Read
- Update
- Delete
- Constraints
- Merge

Hands-on exercises

Day 2

Managing Data

- Bi-directional relations
- Common data structures
- Importing & exporting data
- Backups

Querying Data

- Recommendations
- Location based

Steps for Building a Graph DB Application

- Data Modeling
- Application architecture
- Clustering
- Load Balancing
- Redundancy

Hands-on exercises

Day 3

Graphs in the Real World

- Common Use cases
 - Social
 - Recommendations
 - Network & data center management
 - Logistics

Graph Database Internals

- Native Graph Processing
- Native Graph Storage

- Kernel
- Core
- Recoverability
- Availability

Recap of JS language

Introduction to Node.js

- Http server
- Middlewares
- Express server

Integration of Neo4j with Express server

Hands-on exercises