

Node JS and MS SQL /MY SQL

- **Introduction**
 - what is NodeJS and why
 - Advantages and dis
 - Create a simple node application
 - The NodeJS Terminal
 - NodeJS package manager NPM
 - Creating a package for managing your application
- **Node Modules**
 - What is a module
 - Require and module exports
 - Using core modules
- **File System**
 - Node apps and managing a file system
 - Creating and deleting files and directories
- **HTTP and HTTPs**
 - Making a simple server
 - When to use HTTP and HTTPs
 - Server ports and listening
 - HTTP requests and responses
 - Request and response headers and body
 - Creating a response to incoming requests
- **Express**
 - What is the express framework
 - How it differs to using HTTP and other core modules
 - Creating an express application
- **Express Server**
 - Making an HTTP internal server
 - Attaching express to an external server
 - The role of semantic requests
 - USE, GET, POST, PUT, DELETE, etc.
- **Advance NodeJS**
 - Socket programming
 - Real-time communication with node
 - Accessing nodejs with database
 - Creating chat server with nodejs

- **RESTful APIs**
 - What does RESTful mean?
 - Manipulating data via a route
 - Typical semantic requests for routing an API
 - Persisting data through JSON
 - The role of database technology

MySQL

- **MySQL Get Started**
 - Install MySQL Driver
 - Create Connection
 - Query a Database
- **MySQL Create Database - Creating a Database**
- **MySQL Create Table**
 - Creating a Table
 - Primary Key
- **MySQL Insert Into**
 - Insert Into Table
 - Insert Multiple Records
 - Get Inserted ID
- **MySQL Select From**
 - Selecting From a Table
 - Selecting Columns
 - The Fields Object
- **MySQL Where**
 - Select With a Filter
 - Wildcard Characters
 - Escaping Query Values
- **MySQL Order By**
 - Sort the Result
 - ORDER BY DESC
- **MySQL Delete**
 - Delete Record
 - The Result Object
- **MySQL Drop Table**
 - Delete a Table
 - Drop Only if Exist

- **MySQL Update** - Update Table
- **MySQL Limit**
 - Limit the Result
 - Start From Another Position
 - Shorter Syntax
- **MySQL Join**
 - Join Two or More Tables
 - Left Join
 - Right Join