Database Administration
Lab 10: NoSQL and MongoDB Primer.

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1 Introduction

In this lab, we will continue our exploration of NoSQL technologies by focusing on MongoDB, one of the most widely used NoSQL databases. Through selected readings and hands-on labs, you will gain a foundational understanding of NoSQL types, use cases, and essential MongoDB operations. Although no formal submission is required, developing familiarity with MongoDB is crucial for your upcoming project work. This lab is designed to help you grasp basic concepts and commands that will be vital for your success in group activities and real-world applications.

2 Reading Material

To complement what we have covered about NoSQL in class, we will explore additional readings from the Coursera MOOC *"Introduction to NoSQL Databases"* by IBM and Skills Network, available here. The materials are:

1. NoSQL Types and Use Cases (en, sp).

2. NoSQL Database Deployment Operations (en, sp).

3. NoSQL Glossary (en).

3 Introduction to MongoDB

You will explore the basis of MongoDB through some introductory videos provided by Skills Network. You can get access to the following videos in the correspoinding links:

1. MongoDB: Overview.

2. MongoDB: Advangages.

3. MongoDB: Uses Cases.

(Optional) We will now focus on the second module of the course (available here). For this activity, you must log in to Coursera and register for the course in order to gain access (link to Module 2).

In this module, we will concentrate on the Labs, particularly:

- Lab: Getting Started with MongoDB (Basics of MongoDB section).

- Lab: MongoDB CRUD (Getting Started with MongoDB section).

- Lab: MongoDB Indexing (Getting Started with MongoDB section).

4   What We Expect

Actually, you do not have to submit any evidence of your work, but you will need to become familiar with MongoDB to work on the project. It is important for your group that you grasp the basic concepts of its use and fundamental commands.

Happy Hacking 😎!