

# 1 NoSQL

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## 1.1 LEARNING OBJECTIVES

- What is NoSQL
- Types of NoSQL Databases.
- Difference between SQL and NoSQL Databases.

## 1.2 RESOURCES:

- [Knowing NoSQL](#)
- [SQL vs NoSQL](#)
- [Common types of NoSQLdatabses](#)
- [MongoDB Documentation](#)

## 1.3 REFERENCES

- [Mongo DB Explained and Querying:](#)
- [Very Good medium article to understand the Basic Concepts](#)

## 2 ELASTICSEARCH

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### 2.1 LEARNING OBJECTIVES

- Installation and setup
  - a. Elasticsearch
  - b. Kibana
- Basic Concepts of Elasticsearch
  - a. Indexes
  - b. Types
  - c. Document
  - d. Node
  - e. Cluster
  - f. Shards
  - g. Mapping
  - h. Replicas
  - i. Differences in RDBMS and Elasticsearch terminology
  - j. Frequency (Term frequency and Document frequency)
- Querying in Elasticsearch:
  - a. How to execute query (REST APIs )
  - b. QueryDSL
  - c. Aggregations
    - i. Metric Aggregations
    - ii. Bucket Aggregation
  - d. Scripting:
    - i. Painless Scripting
    - ii. Lucene expressions

### 2.2 RESOURCES:

- [Installation and setup](#)
- [Elasticsearch Documentation](#)
- [Youtube playlist](#)

## 2.3 REFERENCES

- ELK Stack: <https://www.youtube.com/watch?v=MRMgd6E9AXE&t=5s>
- How Elasticsearch is useful in Analytics Applications-  
<https://towardsdatascience.com/an-overview-on-elasticsearch-and-its-usage-e26df1d1d24a>