Here we have collected all the information, data and useful resources that could guide you to deep more into Elasticsearch.

General information

- Real-time distributed and open source full-text search and analytics engine
- Stores data & allows to search it
- Used in Single Page Application projects
- Developed in Java
- Apache license
- Based on Lucene search engine
- Interaction with Elasticsearch is through Restful API
- accessible from RESTful web service interface and uses schema less JSON (JavaScript Object Notation) documents to store data.

You can take a look into the following resources:

- From amazon: https://aesworkshops.com/
- Opensourcelib (also with Docker): https://opensourcelibs.com/lib/elasticsearch-workshop

Links to material:
Documentation

- https://www.elastic.co/guide/index.html
- https://stackshare.io/stackups/elasticsearch-vs-kibana

good overview:

- https://www.section.io/blog/elasticsearch-and-kibana/

tutorials

- **https://www.tutorialspoint.com/elasticsearch/index.htm**

website of the product:

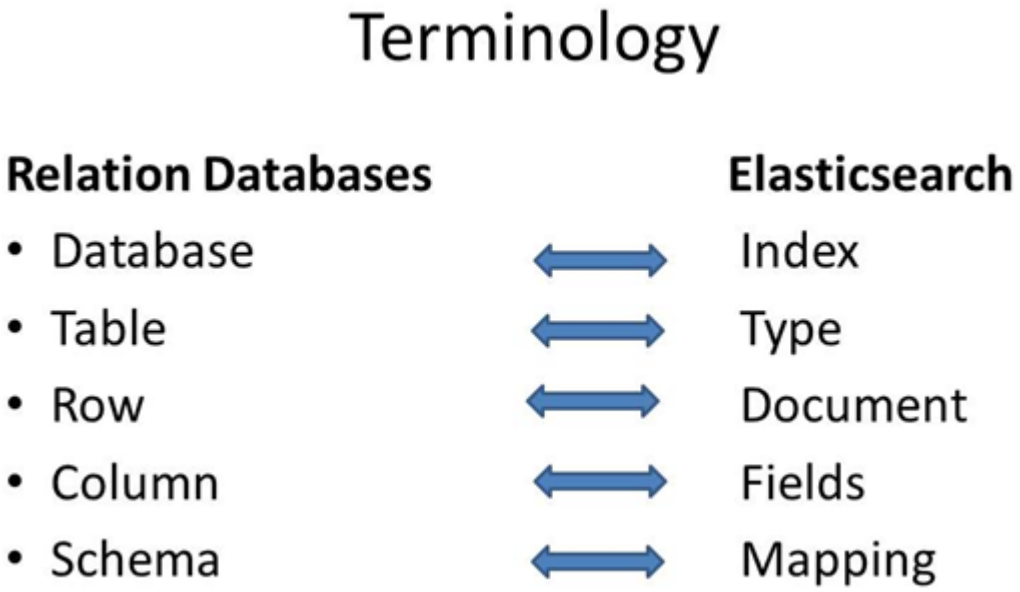
- https://www.elastic.co/de/elasticsearch/
- https://www.elastic.co/de/kibana/

using elasticsearch with docker:

- https://www.elastic.co/guide/en/elasticsearch/reference/current/docker.html

Elasticsearch Terminology

-Basic terminology
Cluster is a collocation of one or more nodes(servers) that together holds your entire data and provides federated indexing and search copiability across all nodes.
Node is a single server that is part of your cluster, stores the data and participates in the cluster's indexing and search capability
Index is a collection of document that have somewhat similar characteristics
Document is a basic unit of information that can be indexed
Shards is a single piece of a subdivided index, it is in itself a fully-functional and independent 'index' that can be hosted on any node in the cluster
Replica shards one or more copies of the index shards



What is ELK stack? How Elasticsearch connect with it?

ELK Stack is a set of three components - Elasticsearch, Logstash, and Kibana. Each component of the ELK stack is used for different purposes.

- Elasticsearch is a NoSQL database tool, which is used to store the unstructured data.
- Logstash is a log pipeline tool to perform transformation on data. It takes input from different sources and performs various transformations on it. At last, it exports the data into various targets.
- Kibana is a data visualization tool, which provides an interactive UI (User Interface) to the users for data visualization.

https://www.javatpoint.com/elasticsearch