

# Mongo DB

Session 1



# What is Mongo?



## Database

Database is a physical container for collections.



## Collection

Collection is a group of MongoDB documents



## Document

A document is a set of key-value pairs. Documents have dynamic schema.

# RDBMS VS MongoDB

RDBMS	MongoDB
Database	Database
Table	Collection
Column	Field
Tuple/Row	Document
Primary Key	Primary Key( _id)





# Why to use MongoDB?



## Schema Less

Number of fields, content and size of the document can differ from one document to another



## Ease to scale

Very easy to scale horizontally



## Conversion/Mapping

Data deserialization/serialization not need from db to app



## Simple Queries

No complex joins due to document structure



## Deep Query Ability

Queries on documents using a document-based query language that's nearly as powerful as SQL.



## Buffering

Uses internal memory for storing the (windowed) working set, enabling faster access of data.



# Where to use MongoDB?



**Big Data**



**Content Management and Delivery**



**Mobile and Social Infrastructure**



**User Data Management**

# Mongo DB

Practice 1



# Objectives

- + Download mongodb
- + Configure MongoDB
- + Try MongoDB

# References

- <https://www.mongodb.com/try/download/community>
- <https://docs.mongodb.com/manual/administration/install-community>