# **Day 4 - 24 May 2025**

**Document Name:**Day 4 - hmuvvala@ - Hari Gopal Muvvala

### **Topic: MongoDB – Basics and Aggregation**

Today we were introduced to **MongoDB**, which is a NoSQL database. I understood that it stores data in a document format instead of traditional rows and tables like in SQL.

We mostly focused on the **aggregation part** of MongoDB.

### **What We Covered:**

* Understood what **aggregate functions** are and how they are useful in analyzing data.
* We got familiar with some functions like:
  + count()
  + distinct()
  + $group
  + $project
  + $match
  + $sort
  + $limit
* Also heard about terms like **merge** and **upsert**, and how they are used while handling data.
* We briefly touched on **pipelines** in MongoDB — I got a rough idea that it means doing multiple operations step by step on data.
* Didn’t go too deep into examples or coding today, but I got a good introduction to how aggregation works.