

Practice Task - 2

Mastering MongoDB Aggregation & Indexing

1. Retrieve the **count** of individuals who are **active** (**isActive: true**) for each **gender**.
2. Retrieve the **names** and **email addresses** of individuals who are **active** (**isActive: true**) and have a favorite fruit of **"banana"**.
3. Find the **average age** of individuals for each **favorite fruit**, then sort the results in **descending order** of average age.
4. Retrieve a list of **unique friend names** for individuals who have **at least one friend**, and include only the friends with names starting with the letter **"W"**.

Hints: Explore how to use regex ["friends.name": /^W/]

5. Use **\$facet** to separate individuals into **two facets** based on their **age**: those **below 30** and those **above 30**. Then, within each facet, bucket the individuals into **age ranges** (e.g., 20-25, 26-30, etc.) and sort them by **age** within each bucket.
6. Calculate the **total balance** of individuals for each company and display the company name along with the **total balance**. Limit the result to show only the **top two companies** with the **highest total balance**.

Hints: Explore \$slice, \$split.