## MongoDB Aggregation Pipelines – Hobby Travel MatchMaker

## Collection: users

* View: top\_hobbies

{ $unwind: "$hobbies" }

{ $group: { \_id: "$hobbies", count: { $sum: 1 } } }

{ $sort: { count: -1 } }

Explanation: Find the most common hobbies among users.

* View: solo\_travel\_users

{ $match: { preferred\_travel\_style: "solo" } }

{ $project: { username: 1, budget: 1 } }

Explanation: List users who prefer solo travel along with their budget.

## Collection: destinations

* View: asia\_destinations

{ $match: { continent: "Asia" } }

{ $project: { name: 1, hobbies\_supported: 1 } }

Explanation: Get all Asian destinations with supported hobbies.

* View: yoga\_destinations

{ $match: { hobbies\_supported: "yoga" } }

{ $group: { \_id: "$country", places: { $push: "$name" } } }

Explanation: Find countries that offer yoga-related destinations.

## Collection: workshops

* View: upcoming\_workshops

{ $match: { date: { $gte: ISODate("2025-07-01") } } }

{ $sort: { date: 1 } }

Explanation: List upcoming workshops in ascending order of date.

* View: workshops\_per\_hobby

{ $group: { \_id: "$hobby", total: { $sum: 1 } } }

{ $sort: { total: -1 } }

Explanation: Count the number of workshops per hobby.

## Collection: hobby\_communities

* View: most\_active\_communities

{ $project: { hobby: 1, total\_members: { $size: "$members" } } }

{ $sort: { total\_members: -1 } }

Explanation: List communities by number of members.

* View: forum\_links

{ $project: { hobby: 1, forum\_link: 1 } }

Explanation: Get forum links for all hobby communities.

## Collection: itineraries

* View: top\_cities

{ $unwind: "$locations" }

{ $group: { \_id: "$locations", count: { $sum: 1 } } }

{ $sort: { count: -1 } }

Explanation: Identify the most frequently visited cities in itineraries.

* View: activity\_analysis

{ $unwind: "$activities" }

{ $group: { \_id: "$activities", users: { $sum: 1 } } }

{ $sort: { users: -1 } }

Explanation: Analyze popular activities from user itineraries.

## Collection: badges

* View: badge\_count

{ $group: { \_id: "$badge\_name", count: { $sum: 1 } } }

{ $sort: { count: -1 } }

Explanation: Find out which badges are earned the most.

* View: recent\_badges

{ $match: { earned\_on: { $gte: ISODate("2025-07-01") } } }

{ $project: { username: 1, badge\_name: 1 } }

Explanation: Show recently earned badges by users.

## Collection: matches

* View: destination\_match\_count

{ $match: { match\_type: "destination" } }

{ $group: { \_id: "$match\_value", total: { $sum: 1 } } }

Explanation: Count how many users matched with each destination.

* View: match\_type\_stats

{ $group: { \_id: "$match\_type", count: { $sum: 1 } } }

Explanation: Group matches by type (destination/group etc).

## Collection: subscriptions

* View: plan\_count

{ $group: { \_id: "$plan", count: { $sum: 1 } } }

{ $sort: { count: -1 } }

Explanation: Count how many users have each subscription plan.

* View: expiring\_soon

{ $match: { valid\_till: { $lte: ISODate("2026-01-01") } } }

{ $project: { username: 1, valid\_till: 1 } }

Explanation: Find subscriptions that are expiring soon.