# MongoDB Aggregation Operations

## Users Aggregations

• Count users by role:  
db.users.aggregate([{ $group: { \_id: '$role', count: { $sum: 1 }}}])

• List all travelers:  
db.users.aggregate([{ $match: { role: 'traveler' }}])

## Bookings Aggregations

• Count bookings per adventure:  
db.bookings.aggregate([{ $group: { \_id: '$adventureId', total: { $sum: 1 }}}])

• Find confirmed bookings:  
db.bookings.aggregate([{ $match: { status: 'confirmed' }}])

**Join user with their bookings**

$lookup

{

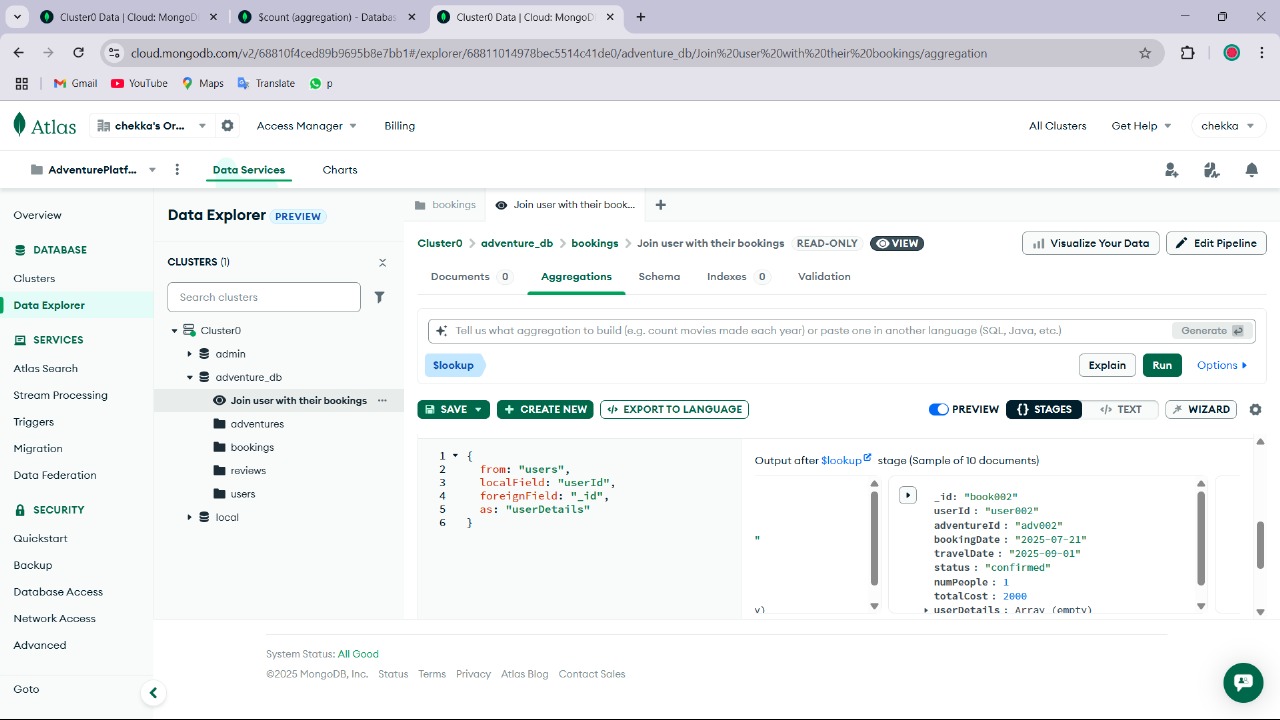
from: "bookings",

localField: "userId",

foreignField: "user\_id",

as: "user\_bookings"

}



**Join user with their bookings**

$lookup

{

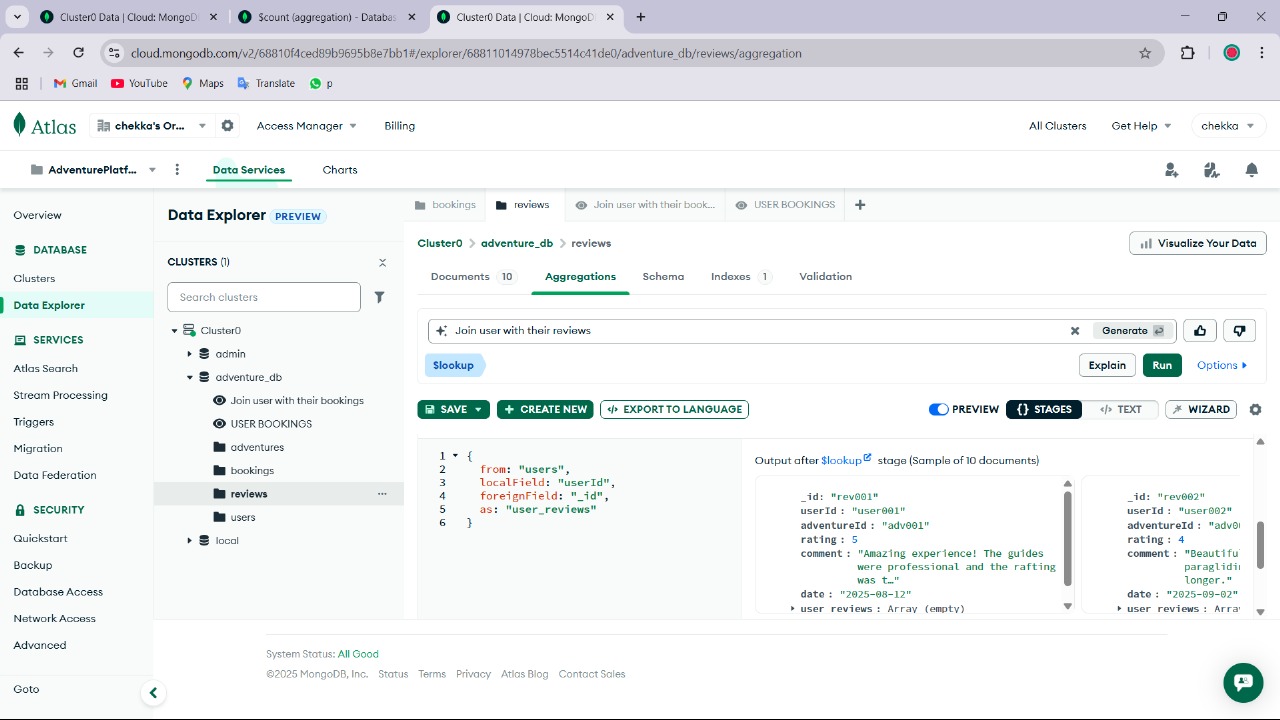
from: "bookings",

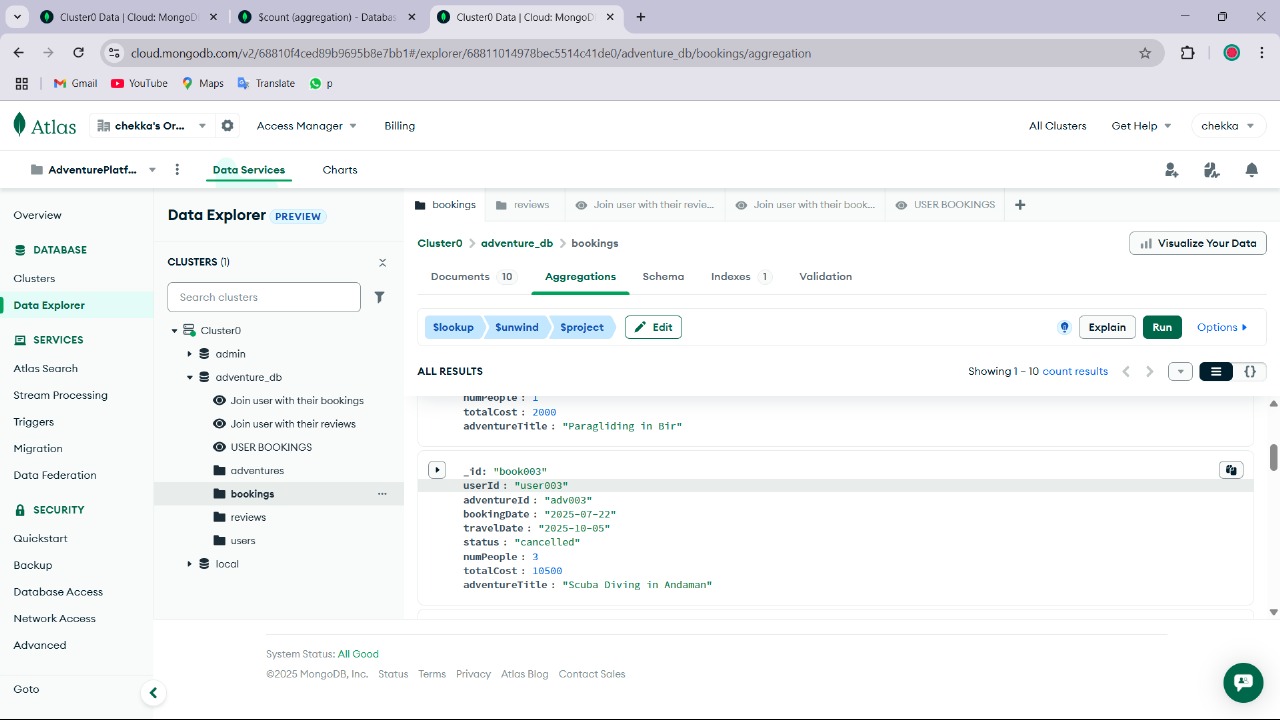
localField: "\_id",

foreignField: "adventureId",

as: "bookings"

}





**Get adventure title for each booking**

$project

{

title: 1

}

