**Experiment 7:**

1. Find all listings with listing\_url, name, address, host, picture url in the listings and Reviews collection that have a host with a picture url.

db.listingsAndReviews.insertMany([

{

listing\_url: "https://airbnb.com/listing/12345",

name: "Cozy Apartment in City Center",

address: {

street: "MG Road",

city: "Bangalore",

country: "India"

},

host: {

host\_id: "host789",

name: "Amit Kumar",

picture\_url: "https://images.com/amit.jpg"

},

picture\_url: "https://images.com/apartment.jpg",

reviews: [

{ date: "2024-01-01", comment: "Great place!" },

{ date: "2024-03-12", comment: "Very clean and comfortable" }

]

},

{

listing\_url: "https://airbnb.com/listing/67890",

name: "Beach View Villa",

address: {

street: "Marine Drive",

city: "Mumbai",

country: "India"

},

host: {

host\_id: "host456",

name: "Sneha Kapoor"

// No picture\_url

},

picture\_url: "https://images.com/villa.jpg"

}

])

db.listingsAndReviews.aggregate([

{

$match: {

"host.picture\_url": { $exists: true, $ne: "" }

}

},

{

$project: {

\_id: 0,

listing\_url: 1,

name: 1,

address: 1,

host: 1,

picture\_url: 1

}

}

])

1. Using E-commerce collection write a query to display reviews .

db.ecommerce.insertMany([

{

product\_id: "P001",

name: "Wireless Mouse",

category: "Electronics",

price: 899,

reviews: [

{ user: "Sneha", rating: 4, comment: "Works well!" },

{ user: "Rohan", rating: 5, comment: "Excellent!" },

{ user: "Priya", rating: 3, comment: "Okay product" }

]

},

{

product\_id: "P002",

name: "Bluetooth Speaker",

category: "Electronics",

price: 1299,

reviews: [

{ user: "Amit", rating: 5, comment: "Great sound!" }

]

}

])

db.ecommerce.aggregate([

{ $unwind: "$reviews" },

{

$group: {

\_id: { product\_id: "$product\_id", name: "$name" },

total\_reviews: { $sum: 1 },

avg\_rating: { $avg: "$reviews.rating" }

}

},

{

$project: {

\_id: 0,

product\_id: "$\_id.product\_id",

name: "$\_id.name",

total\_reviews: 1,

avg\_rating: { $round: ["$avg\_rating", 2] }

}

}

])