7a. 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.

use vacationRentals

```
db.listingsAndReviews.insertMany([
  listing_url: "http://www.example.com/listing/123456",
  name: "Beautiful Apartment",
  address: {
   street: "123 Main Street",
   suburb: "Central",
   city: "Metropolis",
   country: "Wonderland"
  },
  host: {
   name: "Alice",
   picture url: "http://www.example.com/images/host/host123.jpg"
 },
  listing_url: "http://www.example.com/listing/654321",
  name: "Cozy Cottage",
  address: {
   street: "456 Another St",
   suburb: "North",
   city: "Smallville",
   country: "Wonderland"
  },
  host: {
   name: "Bob",
   picture_url: ""
  }
 },
  listing_url: "http://www.example.com/listing/789012",
  name: "Modern Condo",
  address: {
   street: "789 Side Road",
   suburb: "East",
   city: "Gotham",
   country: "Wonderland"
  },
```

```
host: {
   name: "Charlie",
   picture_url: "http://www.example.com/images/host/host789.jpg"
  }
}
```

Query to Find Listings with Host Picture URLs:

Note: Now that the collection is set up, you can run the query to find all listings with listing_url, name, address, and host_picture_url where the host has a picture URL.

```
db.listingsAndReviews.find(
  "host.picture url": { $exists: true, $ne: "" }
 },
  listing_url: 1,
  name: 1,
  address: 1,
  "host.picture_url": 1
).pretty()
OUTPUT:
[
 {
  _id: ObjectId('666c40ce85a7615d27cdcdfb'),
  listing_url: 'http://www.example.com/listing/123456',
  name: 'Beautiful Apartment',
  address: {
    street: '123 Main Street',
    suburb: 'Central',
    city: 'Metropolis',
   country: 'Wonderland'
  },
  host: { picture_url: 'http://www.example.com/images/host/host123.jpg' }
 },
 {
```

```
_id: ObjectId('666c40ce85a7615d27cdcdfd'),
  listing_url: 'http://www.example.com/listing/789012',
  name: 'Modern Condo',
  address: {
   street: '789 Side Road',
   suburb: 'East',
   city: 'Gotham',
   country: 'Wonderland'
  },
  host: { picture url: 'http://www.example.com/images/host/host789.jpg' }
]
7b. Using E-commerce collection write a query to display reviews summary.
use ecommerce
db.products.insertMany([
  product_id: 1,
  name: "Laptop",
  category: "Electronics",
  price: 1200,
  reviews: [
   { user: "Alice", rating: 5, comment: "Excellent!" },
   { user: "Bob", rating: 4, comment: "Very good" },
   { user: "Charlie", rating: 3, comment: "Average" }
 },
  product_id: 2,
  name: "Smartphone",
  category: "Electronics",
  price: 800,
  reviews: [
   { user: "Dave", rating: 4, comment: "Good phone" },
   { user: "Eve", rating: 2, comment: "Not satisfied" },
   { user: "Frank", rating: 5, comment: "Amazing!" }
```

```
},
{
  product_id: 3,
  name: "Headphones",
  category: "Accessories",
  price: 150,
  reviews: [
    { user: "Grace", rating: 5, comment: "Great sound" },
    { user: "Heidi", rating: 3, comment: "Okay" }
  ]
}
```

Query to Find E-commerce collection:

Note: To display a summary of reviews in an e-commerce collection, we can assume the ecommerce database contains a products collection with documents structured to include reviews. Each product document could have a reviews array with review details such as rating, comment, and user.

```
comments: 1
  }
]).pretty()
OUTPUT:
[
  totalReviews: 3,
  averageRating: 4,
  comments: [ 'Excellent!', 'Very good', 'Average' ],
  product: 'Laptop'
 },
 {
  totalReviews: 3,
  averageRating: 3.66666666666665,
  comments: ['Good phone', 'Not satisfied', 'Amazing!'],
  product: 'Smartphone'
 },
  totalReviews: 2,
  averageRating: 4,
  comments: ['Great sound', 'Okay'],
  product: 'Headphones'
```