







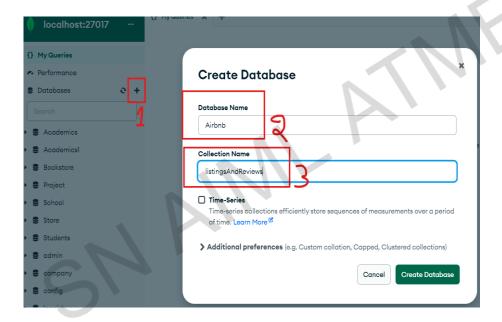




### **Program 7**

a. 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.

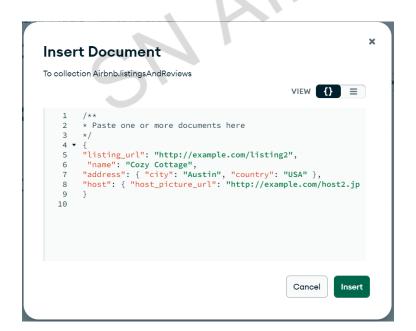
Create a database Airbnb and collection listingsAndReviews in Mongo IDE.



Add the following documents in the listingsAndReviews collection in MongoDB IDE.

```
"listing_url": "http://example.com/listing1",
"name": "Beautiful Apartment in the City",
"address": { "city": "New York", "country": "USA" },
"host": { "host_picture_url": "http://example.com/host1.jpg" }
}
```

```
{
"listing_url": "http://example.com/listing2",
   "name": "Cozy Cottage",
   "address": { "city": "Austin", "country": "USA" },
   "host": { "host_picture_url": "http://example.com/host2.jpg" }
}
```



```
In MongoDB Shell
```

```
>use Airbnb
```

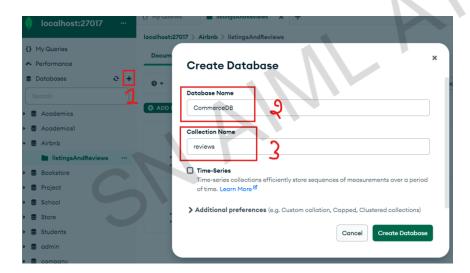
#### **Output:**

```
    _id: ObjectId('66722251c234660bcc7dd143'),
    listing_url: 'http://example.com/listing1',
    name: 'Beautiful Apartment in the City',
    address: {
        city: 'New York',
        country: 'USA'
    },
    host_picture_url: 'http://example.com/host1.jpg'
}
```

```
{
    _id: ObjectId('667222e4c234660bcc7dd145'),
    listing_url: 'http://example.com/listing2',
    name: 'Cozy Cottage',
    address: {
        city: 'Austin',
        country: 'USA'
    },
    host_picture_url: 'http://example.com/host2.jpg'
}
```

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

Create a database **CommerceDB** and collection **reviews** in Mongo IDE.



Add the following documents in the **reviews collection** in MongoDB IDE.

```
{
   "product_id": 1,
   "product_name": "Wireless Mouse",
   "review_id": 101,
   "review_text": "Great mouse, very responsive.",
```

```
"product_id": 1,

"product_name": "Wireless Mouse",

"review_id": 102,

"review_text": "Good value for the price.",

"rating": 4
```

{

}

```
"product_id": 2,

"product_name": "Bluetooth Keyboard",

"review_id": 202,

"review_text": "Compact and portable.",

"rating": 4
}
```

```
"product_id": 3,

"product_name": "USB-C Hub",

"review_id": 302,

"review_text": "Works well with my laptop.",

"rating": 5
}
```

{

# In MongoShell

#### >use CommerceDB

## **Query to Display Reviews Summary**

```
review_id: "$review_id",
     review_text: "$review_text",
     rating: "$rating",
    }
   }
  }
 },
  $project: {
   product_id: "$_id",
   product_name: 1,
   total_reviews: 1,
   average_rating: "$average_rating'
   latest_reviews: {
    $slice: [''$latest_reviews'', -3] // Adjust the number of latest reviews as needed
 },
 {
  $sort: { total_reviews: -1 } // Sort by total reviews in descending order
 }
])
```

## **Output:**

```
_id: 1,
    product_name: 'Wireless Mouse',
    total_reviews: 2,
    product_id: 1,
    average_rating: 4.5,
    latest_reviews: [
        {
            review_id: 101,
            review_text: 'Great mouse, very responsive.',
            rating: 5
        },
        {
            review_id: 102,
            review_text: 'Good value for the price.',
            rating: 4
        }
        ]
    }
}
```

```
{
    _id: 2,
    product_name: 'Bluetooth Keyboard',
    total_reviews: 1,
    product_id: 2,
    average_rating: 4,
    latest_reviews: [
        {
            review_id: 202,
            review_text: 'Compact and portable.',
            rating: 4
        }
     ]
}
```

```
{
    _id: 3,
    product_name: 'USB-C Hub',
    total_reviews: 1,
    product_id: 3,
    average_rating: 5,
    latest_reviews: [
      {
        review_id: 302,
        review_text: 'Works well with my laptop.',
        rating: 5
      }
    ]
}
```