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```

1  import mongoose from "mongoose";
2  import chalk from "chalk";
3  // Use import
4  import dotenv from "dotenv";
5  dotenv.config();
6
7  const connectDB = async () => {
8    try {
9      const conn = await mongoose.connect(process.env.MONGO_URL);
10     console.log(
11       chalk.bgMagenta.white(`Connected to MongoDB ${conn.connection.host}`)
12     );
13   } catch (error) {
14     console.error(chalk.bgRed.white(`Error in connection ${error}`));
15   }
16 };
17 export default connectDB;
18

```

```

1  import mongoose from "mongoose";
2
3  const productSchema = new mongoose.Schema({
4    id: Number,
5    title: String,
6    description: String,
7    price: Number,
8    discountPercentage: Number,
9    rating: Number,
10   stock: Number,
11   brand: String,
12   category: String,
13   thumbnail: String,
14   images: [String],
15 });
16
17 const Product = mongoose.model("Product", productSchema);
18
19 export default Product;
20

```

javascript

Copy code

```

const getProducts = async () => {
  try {
    // Connect to the database
    await connectDB();

    // Use the find() method to retrieve all documents from the Products collection
    // Sort the products by the "rating" field in descending order (-1 for descending)
    const Products = await Product.find().sort({ rating: -1 });

    // Log the retrieved Products
    console.log("Retrieved Products (sorted by rating in descending order):");
    console.log(Products);
  } catch (error) {
    console.error("Error occurred:", error);
  } finally {
    // Close the database connection
    mongoose.connection.close();
  }
};


// Call the getProducts function to retrieve and log the sorted Products
getProducts();

```


```
import mongoose from "mongoose";
import Product from "../userschema.js";
import connectDB from "../connection/db.js";
```

```
const createDocument = async () => {
  try {
```

```
    // Connect to the database
    await connectDB();
```


```
>  const newItem = new Product({ ...
  });

  const result = await newItem.save();
  console.log("Document saved successfully:", result);
} catch (error) {
  console.error("Error occurred:", error);
} finally {
  // Close the database connection
  mongoose.connection.close();
}
};
createDocument();
```

```
9
10  const newItem = new Product({
11   id: 31,
12   title: "iPhone 99",
13   description: "An apple mobile which is in space",
14   price: 54990,
15   discountPercentage: 88.96,
16   rating: 9.69,
17   stock: 9,
18   brand: "Apple",
19   category: "smartphones",
20   thumbnail: "https://i.dummyjson.com/data/products/1/thumbnail.jpg",
21   images: [
22     "https://i.dummyjson.com/data/products/1/1.jpg",
23     "https://i.dummyjson.com/data/products/1/2.jpg",
24     "https://i.dummyjson.com/data/products/1/3.jpg",
25     "https://i.dummyjson.com/data/products/1/4.jpg",
26     "https://i.dummyjson.com/data/products/1/thumbnail.jpg",
27   ],
28   });
29
```



```

146 const createDocuments = async () => {
147   try {
148     // Connect to the database
149     await connectDB();
150
151 >  const newProducts = [ ...
189   ];
190
191   const result = await Product.insertMany(newProducts);
192   console.log("Documents saved successfully:", result);
193 } catch (error) {
194   console.error("Error occurred:", error);
195 } finally {
196   // Close the database connection
197   mongoose.connection.close();
198 }
199 };
200
201 createDocuments();
202

```

```

const newProducts = [
{
  id: 31,
  title: "iPhone 99",
  description: "An apple mobile which is in space",
  price: 54990,
  discountPercentage: 88.96,
  rating: 9.69,
  stock: 9,
  brand: "Apple",
  category: "smartphones",
  thumbnail: "https://i.dummyjson.com/data/products/1/thumbnail.jpg",
  images: [
    "https://i.dummyjson.com/data/products/1/1.jpg",
    "https://i.dummyjson.com/data/products/1/2.jpg",
    "https://i.dummyjson.com/data/products/1/3.jpg",
    "https://i.dummyjson.com/data/products/1/4.jpg",
    "https://i.dummyjson.com/data/products/1/thumbnail.jpg",
  ],
},
{
  id: 32,
  title: "Samsung Galaxy S22",
  description: "A flagship smartphone from Samsung",
  price: 49999,
  discountPercentage: 10.5,
  rating: 8.5,
  stock: 15,
  brand: "Samsung",
  category: "smartphones",
  thumbnail: "https://i.dummyjson.com/data/products/2/thumbnail.jpg",
  images: [
    "https://i.dummyjson.com/data/products/2/1.jpg",
    "https://i.dummyjson.com/data/products/2/2.jpg",
    "https://i.dummyjson.com/data/products/2/3.jpg",
  ],
},
];

```













```
203
204 const updatePriceByTitle = async (title, newPrice) => {
205   try {
206     // Connect to the database
207     await connectDB();
208
209     // Update the price for all documents with the specified title
210     const result = await Products.updateMany(
211       { title: title }, // The condition to match the documents
212       { $set: { price: newPrice } } // The update to apply
213     );
214
215     console.log("Documents updated successfully:", result.nModified, "documents modified");
216   } catch (error) {
217     console.error("Error occurred:", error);
218   } finally {
219     // Close the database connection
220     mongoose.connection.close();
221   }
222 };
223
224 // Example usage: Update the price of all "iPhone 9" products to a new price
225 updatePriceByTitle("iPhone 9", 599.99);
226
```

```

202
203 const updateManyDocuments = async (title, newPrice) => {
204   try {
205     // Connect to the database
206     await connectDB();
207
208     // Update all documents that match the condition
209     const updateResult = await Product.updateMany(
210       { title: title }, // The condition to match the documents
211       { $set: { price: newPrice } } // The update to apply
212     );
213
214     // Find and retrieve the updated documents
215     const updatedDocuments = await Product.find({ title: title });
216
217     if (updateResult.nModified === 0) {
218       console.log("No documents were updated.");
219     } else {
220       console.log("documents updated successfully.");
221       console.log("Updated documents:", updatedDocuments);
222     }
223   } catch (error) {
224     console.error("Error occurred:", error);
225   } finally {
226     // Close the database connection
227     mongoose.connection.close();
228   }
229 };
230
231 // Example usage: Update the price of all "iPhone 9" products and retrieve the updated documents
232 updateManyDocuments("iPhone 9", 599.99);
233

```



```
234
235 const deleteDocumentsByTitle = async (title) => {
236   try {
237     // Connect to the database
238     await connectDB();
239
240     // Delete all documents that match the condition
241     const deleteResult = await Product.deleteMany({ title: title });
242
243     if (deleteResult.deletedCount === 0) {
244       console.log("No documents matching the condition were found.");
245     } else {
246       console.log(deleteResult.deletedCount, "documents deleted successfully.");
247     }
248   } catch (error) {
249     console.error("Error occurred:", error);
250   } finally {
251     // Close the database connection
252     mongoose.connection.close();
253   }
254 };
255
256 // Example usage: Delete all documents with the title "iPhone 9"
257 deleteDocumentsByTitle("iPhone 9");
258
```



```
import mongoose from "mongoose";

const productSchema = new mongoose.Schema({
  id: {
    type: Number,
    required: true,
    unique: true,
  },
  title: {
    type: String,
    required: true,
  },
  description: String,
  price: {
    type: Number,
    required: true,
    min: 0, // Minimum price value
  },
  discountPercentage: {
    type: Number,
    min: 0,
    max: 100, // Percentage should be between 0 and 100
  },
  rating: {
    type: Number,
    min: 0,
    max: 10, // Rating should be between 0 and 10
  },
```

```
    stock: {
      type: Number,
      min: 0,
    },
    brand: String,
    category: String,
    thumbnail: String,
    images: [String],
  });
```

```
const Product = mongoose.model("Product", productSchema);
```

```
export default Product;
```