

MongoDB

Problem statement-2

1. Create Database:

Write a MongoDB script to create a database named "ecommerce" if it doesn't exist.

2. Create Collection with Index:

Task: Create a collection named "products" within the "ecommerce" database. Include fields for "productName" (string), "price" (integer), and set an index on the "productName" field for faster queries

Here's the MongoDB script for both tasks:

1. Create Database (ecommerce) if it doesn't exist:

```
// Connect to MongoDB
use ecommerce;

// Check if the database exists (by checking a collection)
if (db.getCollectionNames().length == 0) {
    print("Creating database 'ecommerce'...");
    db.createCollection("dummyCollection");
    db.dummyCollection.drop(); // Remove the dummy collection after creation
} else {
    print("Database 'ecommerce' already exists.");
}
```

2. Create products Collection with Index:

```
// Create the 'products' collection with sample fields
db.createCollection("products");

// Ensure fields: "productName" (string) and "price" (integer)
db.products.insertOne({
    productName: "Sample Product",
    price: 100
});

// Create an index on the "productName" field for faster queries
db.products.createIndex({ productName: 1 });
```