### Q1. Creating and Dropping Database & Collection

```
sh
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# Creating a new database
use MyDatabase

# Creating a collection (implicitly by inserting a document)
db.createCollection("Customers")

# Dropping a collection
db.Customers.drop()

# Dropping the entire database
db.dropDatabase()
```

#### Q2. Insert a New Document into the "Customers" Collection

```
sh
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db.Customers.insertOne({
    name: "John Doe",
    email: "john.doe@example.com",
    address: "123 Main St, New York, NY",
    purchases: 500
})
```

## Q3. Retrieve and Display All Documents from the "Customers" Collection

```
sh
```

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```
db.Customers.find().pretty()
```

## Q4. Update the Address of a Specific Customer

sh

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## Q5. Query for Customers Who Have Made Purchases Over a Certain Amount

```
sh
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db.Customers.find({ purchases: { $gt: 300 } }).pretty()
```

#### Q6. Remove a Customer from the "Customers" Collection

sh

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```
db.Customers.deleteOne({ name: "John Doe" })
```

#### Q7. Create a New Database Named "SchoolDB"

sh

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use SchoolDB

#### Q8. Insert Documents into the "Students" Collection

```
sh
```

```
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```

## Q9. Query for Students Older Than a Specific Age or Belonging to a Particular Grade

```
sh
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db.Students.find({ $or: [{ age: { $gt: 15 } }, { grade: "9th" }]
}).pretty()
```

### Q10. Update the Grade of a Specific Student

#### Q11. Insert Documents into the "Teachers" Collection

# Q12. Query for Teachers Specializing in a Specific Subject or Having More Than a Certain Experience

```
sh
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db.Teachers.find({ $or: [{ subject: "Physics" }, { experience: { $gt:
9          } }).pretty()
```

## Q13. Update the Experience of a Specific Teacher

#### **Additional Tasks**

#### Task 1: Create a New MongoDB Database Named "PWSKILLS"

sh

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use PWSKILLS

#### Task 2: Create a Collection Named "Employees" Within the "PWSKILLS" Database

sh

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db.createCollection("Employees")

#### Task 3: Insert Several Documents Representing Employees

sh

```
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```

#### Task 4: Retrieve and Display All Documents from the "Employees" Collection

sh

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db.Employees.find().pretty()

## Task 5: Drop the "Employees" Collection

sh

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db.Employees.drop()