**DBMS Practical No: 9**

**# Write the MongoDB Queries using CRUD operations.**

**(Use CRUD operations, SAVE method, logical operators**

**etc)**

**1. Create (INSERT) Data:**

**Insert a single document:** The insertOne() method is used to insert a single document into a collection. You provide a JavaScript object representing the data you want to insert. For example:

**javascript**

**db.collectionName.insertOne({ name: "John", age: 30 });**

**Insert multiple documents:** The insertMany() method allows you to insert multiple documents at once. You pass an array of objects to insert multiple records. For example:

**javascript**

**db.collectionName.insertMany([**

**{ name: "Alice", age: 25 },**

**{ name: "Bob", age: 35 }**

**]);**

**2. Read (SELECT) Data:**

**Find all documents in a collection:** The find({}) method is used to retrieve all documents from a collection. An empty object as an argument means there are no specific conditions, so it returns all documents.

**javascript**

**db.collectionName.find({});**

Find documents with a specific condition (using logical operators): You can use various query operators like $eq, $gt, $lt, $in, etc., to specify conditions in your find queries. For example:

**javascript**

**// Find documents where the "age" is greater than or equal to 30**

**db.collectionName.find({ age: { $gte: 30 } });**

**3. Update Data:**

**Update a single document:** The updateOne() method allows you to update the first document that matches a given query. You use $set to specify the fields and their new values.

**javascript**

**db.collectionName.updateOne({ name: "John" }, { $set: { age: 31 } });**

**Update multiple documents:** The updateMany() method updates all documents that match a given query.

**javascript**

**db.collectionName.updateMany({ age: { $lt: 30 } }, { $set: { status: "young" } });**

**4. Delete Data:**

Delete a single document: The deleteOne() method deletes the first document that matches a given query.

**javascript**

**db.collectionName.deleteOne({ name: "Alice" });**

Delete multiple documents: The deleteMany() method deletes all documents that match a given query.

**javascript**

**db.collectionName.deleteMany({ age: { $lt: 25 } });**