

## Practical no. 3

### MongoDB Queries: Design and Develop MongoDB Queries using CRUD operations.

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#### C - Create Operations

```
1) b.Employee.insertOne({
... emp_id: 101,
... name: "Ravi Kumar",
... department: "Sales",
... salary: 65000,
... city: "Mumbai"
... });
{
  acknowledged: true,
  insertedId: ObjectId('69158635467295331163b112')
}
```

```
2) db.Employee.insertMany([
... {
... emp_id: 102,
... name: "Priya Sharma",
... department: "IT",
... salary: 82000,
... city: "Bengaluru"
... },
... {
... emp_id: 103,
... name: "Amit Joshi",
... department: "Sales",
... salary: 60000,
... city: "Mumbai"
... }
... ]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('69158785467295331163b113'),
    '1': ObjectId('69158785467295331163b114')
  }
}
```

#### R - Read Operation

```
1) db.Employee.find({});
[
  {
    _id: ObjectId('69158635467295331163b112'),
    emp_id: 101,
    name: 'Ravi Kumar',
    department: 'Sales',
    salary: 65000,
    city: 'Mumbai'
  }
]
```

```

    },
    {
      _id: ObjectId('69158785467295331163b113'),
      emp_id: 102,
      name: 'Priya Sharma',
      department: 'IT',
      salary: 82000,
      city: 'Bengaluru'
    },
    {
      _id: ObjectId('69158785467295331163b114'),
      emp_id: 103,
      name: 'Amit Joshi',
      department: 'Sales',
      salary: 60000,
      city: 'Mumbai'
    }
  ]

```

```

2) db.Employee.find({
... salary: {$gt: 70000}
... });
[
  {
    _id: ObjectId('69158785467295331163b113'),
    emp_id: 102,
    name: 'Priya Sharma',
    department: 'IT',
    salary: 82000,
    city: 'Bengaluru'
  }
]

```

```

3) db.Employee.find({
... department: "IT",
... city: "Bengaluru"
... });
[
  {
    _id: ObjectId('69158785467295331163b113'),
    emp_id: 102,
    name: 'Priya Sharma',
    department: 'IT',
    salary: 82000,
    city: 'Bengaluru'
  }
]

```

## U - Update Operations

```

1) db.Employee.updateOne(
... {emp_id: 103},
... { $set: {department: "Marketing"}}
... );

```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

**2) db.Employee.find({ emp\_id: 103 });**

```
[
  {
    _id: ObjectId('69158785467295331163b114'),
    emp_id: 103,
    name: 'Amit Joshi',
    department: 'Marketing',
    salary: 60000,
    city: 'Mumbai'
  }
]
```

**3) db.Employee.updateMany(**  
**... { city: "Bengaluru"},**  
**... { \$inc: {salary: 5000}}**  
**... );**

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

**4) db.Employee.find(**  
**... {**  
**... city: "Bengaluru"**  
**... }**  
**... );**

```
[
  {
    _id: ObjectId('69158785467295331163b113'),
    emp_id: 102,
    name: 'Priya Sharma',
    department: 'IT',
    salary: 87000,
    city: 'Bengaluru'
  }
]
```

## D - Delete Operation

```
1) db.Employee.deleteOne(
... {
... emp_id: 103
... }
... );
{ acknowledged: true, deletedCount: 1 }
```

```
2) db.Employee.deleteMany(
... {
... city: "Mumbai"
... }
... );
{ acknowledged: true, deletedCount: 3 }
```

```
3) db.Employee.drop();
true
```