# **MONGODB ASSIGNMENT 2**

### **Update Operations**

# **Delete Operation**

```
jisl> db.inventory.deleteMany({item:"stickerbook"})
{ acknowledged: true, deletedCount: 1 }
jisl> |
```

# **Atomicity and Transactions**

Creating New collection named games and inserting the values

```
mongodb> db.games.insertOne({_id:1, score: 80})
{ acknowledged: true, insertedId: 1 }
```

# **Updating the value (updateOne)**

Syntax of UpdateOne

# Again updating the value of score

UpdateOne

```
mongodb> db.games.updateOne({score:80}, {$set:{score:90}})
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 0,
   modifiedCount: 0,
   upsertedCount: 0
}
mongodb> db.games.find()
[ { _id: 1, score: 90 } ]
```

### UpdateMany

```
mongodb> db.games.updateMany({_id:{$in:[3,5]}},{$set:{score:100}})
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 2,
    modifiedCount: 0
}
mongodb> db.games.find()
[
    {_id: 1, score: 90 },
    {_id: 2, score: 90 },
    {_id: 3, score: 100 },
    {_id: 4, score: 60 },
    {_id: 5, score: 100 }
]
```

We can update fields other than \_id.

We cannot update \_id with \$set, even in updateOne() or updateMany()

```
mongodb> db.games.updateMany({_id:{$in:[3,5]}},{$set:{_id:6}})

MongoServerError: Performing an update on the path '_id' would modify the im
mutable field '_id'
```

#### **Delete**

Inserting a value to be deleted

```
mongodb> db.games.insertOne({_id:2, score: 60})
{ acknowledged: true, insertedId: 2 }
mongodb> db.games.find()
[ { _id: 1, score: 90 }, { _id: 2, score: 60 } ]
```

### deleteOne

```
mongodb> db.games.deleteOne({score:60})
{ acknowledged: true, deletedCount: 1 }
mongodb> db.games.find()
[ { _id: 1, score: 90 } ]
```

#### Table

```
mongodb> db.games.find()
[
    { _id: 1, score: 90 },
    { _id: 2, score: 90 },
    { _id: 3, score: 100 },
    { _id: 4, score: 60 },
    { _id: 5, score: 100 },
    { _id: 6, score: 85 },
    { _id: 7, score: 85 }
]
```

```
nongodb> db.games.deleteMany({_id:{$in:[6,7]}})
{    acknowledged: true, deletedCount: 2 }
nongodb> db.games.find()
[
    {_id: 1, score: 90 },
    {_id: 2, score: 90 },
    {_id: 3, score: 100 },
    {_id: 4, score: 60 },
    {_id: 5, score: 100 }
```

# **MongoDB Projection**

#### **Including Specific Fields**

```
jisl> db.inventory.find({},{item:1}).pretty()
[
    { _id: ObjectId('687e08c95a68bf389feec4a9'), item: 'canvas' },
    { _id: ObjectId('687e08d25a68bf389feec4aa'), item: 'journal' },
    { _id: ObjectId('687e08d25a68bf389feec4ab'), item: 'mat' },
    { _id: ObjectId('687e08d25a68bf389feec4ab'), item: 'mousepad' },
    { _id: ObjectId('687e08d25a68bf389feec4ac'), item: 'mousepad' },
    { _id: ObjectId('687e0ee45a68bf389feec4ac'), item: 'notebook' },
    { _id: ObjectId('687e0ee45a68bf389feec4ae'), item: 'diary' }
]

jisl> db.inventory.find({}, {qty:1}).pretty()
[
    { _id: ObjectId('687e08d25a68bf389feec4ae'), qty: 25 },
    { _id: ObjectId('687e08d25a68bf389feec4ae'), qty: 25 },
    { _id: ObjectId('687e08d25a68bf389feec4ae'), qty: 25 },
    { _id: ObjectId('687e0ee45a68bf389feec4ae'), qty: 25 },
    { _id: ObjectId('687e0ee45a68bf389feec4ae'), qty: 25 }
]

jisl> db.inventory.find({}, {qty:2}).pretty()
[
    { _id: ObjectId('687e08d25a68bf389feec4ae'), qty: 25 },
    { _id: ObjectId('687e08e45a68bf389feec4ae'), qty: 25 },
    { _id: ObjectId('687e08e45a68bf389feec4ae'), qty: 25 },
    { _id: ObjectId('687e08e45a68bf389feec4ae'), qty: 25 },
    { _id: ObjectId('687e0ee45a68bf389feec4ae'), qty: 25 },
}
```

### **Including Multiple Fields**

```
jisl> db.inventory.find({},{item:1, qty:1}).pretty()
{
    _id: ObjectId('687e08c95a68bf389feec4a9'),
    item: 'canvas',
    qty: 100
},

_id: ObjectId('687e08d25a68bf389feec4aa'),
    item: 'journal',
    qty: 25
},
{
    _id: ObjectId('687e08d25a68bf389feec4ab'), item: 'mat', qty: 85 },
{
    _id: ObjectId('687e08d25a68bf389feec4ac'),
    item: 'mousepad',
    qty: 25
},
{
    _id: ObjectId('687e0ee45a68bf389feec4ad'),
    item: 'notebook',
    qty: 60
},
    _id: ObjectId('687e0ee45a68bf389feec4ae'), item: 'diary', qty: 25 }
}
```

```
jisl> db.inventory.find({},{item:1, qty:1,_id:0}).pretty()
[
    { item: 'canvas', qty: 100 },
    { item: 'journal', qty: 25 },
    { item: 'mat', qty: 85 },
    { item: 'mousepad', qty: 25 },
    { item: 'notebook', qty: 60 },
    { item: 'diary', qty: 25 }
]
```

## Invalid: Mixing Inclusion and Exclusion (Except id)

```
jisl> db.inventory.find({},{item:1, qty:1,tags:0})
MongoServerError[Location31254]: Cannot do exclusion on field tags in inclus
ion projection
```

```
jisl> db.inventory.find({},{item:1, _id:0}).pretty()
[
    { item: 'canvas' },
    { item: 'journal' },
    { item: 'mat' },
    { item: 'mousepad' },
    { item: 'notebook' },
    { item: 'diary' }
]
```