Title: Update, remove and delete command

**Aim:** To demonstrate variations of update, findOneAndReplace and delete commands on any dataset

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NoSQL Lab6

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## Importing the dataset

```
C:\Program Files\MongoDB>mongoimport --db employee --collection spotify_data --type=csv --headerline --file="D:/Z/Downloads/Spotify.csv"
2023-03-29T09:20:46.648-0530 connected to: mongodb://localhost/
2023-03-29T09:20:47.217+0530 20718 document(s) imported successfully. 0 document(s) failed to import.
```

#### Q1) Update Command

Syntax: db.spotify\_data.update({Track: "New Gold (feat. Tame Impala and Bootie Brown) - Dom Dolla Remix"}, {\$set: {Album: "New Gold (feat. Tame Impala and Bootie Brown) [Dom Dolla Remix]"}})

Syntax: db.spotify\_data.update({Track: "New Gold (feat. Tame Impala and Bootie Brown) - Dom Dolla Remix"}, {\$set: {Album\_type: "album"}})

Syntax: db.spotify\_data.find({Track: {\$eq: "New Gold (feat. Tame Impala and Bootie Brown)
- Dom Dolla Remix"}})

## Q2) Update command to update more than one document

Syntax: db.spotify\_data.update({Album: "Get Rich Or Die Tryin""}, {\$set: {Instrumentalnass: 0.02}}, {multi: true})

Syntax: db.spotify data.find({Album: "Get Rich Or Die Tryin'"}, {Instrumentalnass: 1})

```
employee> db.spotify_data.update({Album: "Get Rich Or Die Tryin'"}, {$set: {Instrumentalnass: 0.02}}, {multi: true})
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 5,
   modifiedCount: 5,
   upsertedCount: 0
}
```

### Q3) updateMany command

Syntax: db.updateMany({Album: "Californication (Deluxe Edition)"}, {\$set: {Instrumentalnass: 0.05}})

```
employee> db.spotify_data.updateMany({Album: "Californication (Deluxe Edition)"}, {$set: {Instrumentalnass: 0.05}})
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 3,
    modifiedCount: 3,
    upsertedCount: 0
}
employee> db.spotify_data.find({Album: "Californication (Deluxe Edition)"}, {Instrumentalnass: 1})
[
    {_id: ObjectId("6423b5968bafc3f1b999169e"), Instrumentalnass: 0.05 },
    {_id: ObjectId("6423b5968bafc3f1b99916a1"), Instrumentalnass: 0.05 },
    {_id: ObjectId("6423b5968bafc3f1b99916a3"), Instrumentalnass: 0.05 }
}
```

# Q4) FindOneAndReplace to find one key:value and update more than one key:value pairs.

Syntax: db.spotify\_data.findOneAndUpdate({Loudness: {\$lt: -10}}, {\$inc: {Danceability: 0.1}}, {returnNewDocument: true})

```
employee> db.spotify_data.findOneAndUpdate({Loudness: {$lt: -10}}, {$inc: {Danceability: 0.1}}, {returnNewDocument: true})
{
    _id: ObjectId("6423b5968bafc3f1b99916a0"),
    '': 11,
    Artist: 'Red Hot Chili Peppers',
    Track: 'Under the Bridge',
    Album: 'Blood Sugar Sex Magik (Deluxe Edition)',
    Album: type: 'album',
    Danceability: 0.66,
    Energy: 0.35,
    Key: 4,
    Loudness: -13.5,
    Speechiness: 0.05,
    Acousticness: 0.06,
    Instrumentalness: 0,
    Liveness: 0.14,
    Valence: 0.46,
    Tempo: 84.58,
    Duration_ms: 264307
}
```

# Q5) findOneAndUpdate with projection, sort, upsert, returnNewDocument, arrayFilters option.

Syntax: db.spotify\_data.findOneAndUpdate({Loudness: {\$lt: -10}}, {\$inc: {Danceability: 0.1}}, {projection: {Artist: 1, Track: 1, Album: 1}, sort: {"Duration\_ms": 1}, returnNewDocument: true, upsert: true})

## Q6) findOneAndUpdate with aggregation operators and inc

Syntax: db.spotify\_data.findOneAndUpdate({": {\$gt:0}}, {\$set: {"Total": {\$sum: ["\$Danceability", "\$Energy", "\$Key", "\$Loudness", "\$Speechiness", "\$Acousticness", "\$Instrumentalness", "\$Liveness", "\$Valence", "\$Tempo", "\$Acoustine"]}}}, {upsert: true})

## Q7) Replace command in try catch block

Syntax: try{db.spotify\_data.findOneAndUpdate({": {\$gt:0}}, {\$set: {"Total": {\$sum: ["\$Danceability", "\$Energy", "\$Key", "\$Loudness", "\$Speechiness", "\$Acousticness", "\$Instrumentalness", "\$Liveness", "\$Valence", "\$Tempo", "\$Acoustine"]}}}, {upsert: true})} catch(e) {print(e);}

#### Q8) Remove command, deleteOne and deleteMany commands

Syntax: db.spotify\_collection.remove({": (db.spotify\_data.count() - 1)})
Syntax: db.spotify\_data.find({":20717})

```
employee> db.spotify_collection.remove({'': (db.spotify_data.count() - 1)})
{ acknowledged: true, deletedCount: 0 }
employee> db.spotify_data.find({'':20717})
[
{
    _id: ObjectId("6423b5978bafc3f1b9996782"),
    '': 20717,
    Artist: 'SICK LEGEND',
    Track: 'MISS YOU HARDSTYLE',
    Album: 'MISS YOU HARDSTYLE',
    Album: 'MISS YOU HARDSTYLE',
    Album: 'MISS YOU HARDSTYLE',
    Album.type: 'single',
    Danceability: 0.5,
    Energy: 0.94,
    Key: 6,
    Loudness: -4.54,
    Speechiness: 0.11,
    Acousticness: 0,
    Instrumentalness: 0.91,
    Liveness: 0.14,
    Valence: 0.08,
    Tempo: 160.07,
    Duration_ms: 181500
}
```

```
Syntax: db.spotify_data.find({Album: "Get Rich Or Die Tryin""}).count()

Syntax: db.spotify_collection.deleteOne({Album: "Get Rich Or Die Tryin""})

employee> db.spotify_data.find({Album: "Get Rich Or Die Tryin""}).count()

employee> db.spotify_collection.deleteOne({Album: "Get Rich Or Die Tryin""})

{ acknowledged: true, deletedCount: 0 }

Syntax: db.spotify_collection.deleteMany({Album: "Get Rich Or Die Tryin""})

employee> db.spotify_collection.deleteMany({Album: "Get Rich Or Die Tryin"})

acknowledged: true, deletedCount: 0 }
```