LAB NO 13

SQL to MongoDB Mapping Chart

OBJECTIVE:

• SQL to Mongodb Mapping Chart

LAB TASKS:

- 1. Create a comparison chart of mongoDB and SQL queries and perform
 - Create and alter queries
 - Insert,update,delete queries on resturant collection.

SQL Concept	MongoDB Equivalent
CREATE TABLE	Implicit on insertOne() or insertMany()
INSERT INTO	insertOne() / insertMany()
SELECT * FROM table	find()
SELECT col1, col2 FROM table	find({}, {col1: 1, col2: 1})
WHERE clause	Filter object in find()
UPDATE table SET	updateMany() / updateOne()
DELETE FROM table	deleteMany() / deleteOne()
ALTER TABLE ADD	updateMany({}, { \$set: { new_field: value } })
ALTER TABLE DROP COLUMN	updateMany({}, { \$unset: { field_name: "" } })
DROP TABLE	drop()
LIKE	Regex in find() e.g. /pattern/
ORDER BY	.sort({ field: 1/-1 })

A. Create and Alter Queries

B. Insert Data

C. Update Queries

```
test> db.restaurant.updateMany(
test> db.restaurant.updateMany({}, { $set: { opening_date: new Date() } })
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    upsertedCount: 0
}

test> db.restaurant.updateMany({}, { $unset: { opening_date: "" } })

acknowledged: true,
    insertedId: null,
    matchedCount: 0,
    upsertedCount: 0,
    upsertedCount: 0
}

... { $inc: { rating: 0.5 } }

... )

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

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D. Delete Queries

```
test> db.restaurant.deleteMany({ status: "Closed" })
{ acknowledged: true, deletedCount: 0 }
test> db.restaurant.deleteMany({})
{ acknowledged: true, deletedCount: 1 }
```