Assignment 2

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1) CODE FOR INSERT, DELETE AND CREATE:

```
CREATE TABLE customers (
   id INT AUTO_INCREMENT PRIMARY KEY,
   name VARCHAR(50),
   email VARCHAR(50)
);

INSERT INTO customers (name, email)
VALUES ('John Doe', 'john@example.com');
INSERT INTO customers (name, email)
VALUES ('John Brosky', 'johnny@example.com');
INSERT INTO customers (name, email)
VALUES ('Jon David', 'john@dvdexample.com');

DELETE FROM customers
WHERE id = 1;

select * FROM customers;
```

OUTPUT:

Output:

id	name	email
2	John Brosky	johnny@example.com
3	Jon David	john@dvdexample.com

2) CREATE TABLES AND PERFORM JOIN:

Let's say we have two tables: `customers` and `orders`. The `customers` table stores information about customers, and the `orders` table stores information about their orders. We'll create these tables and perform a join to fetch the orders for each customer.

```
CREATE TABLE customers (
    customer_id INT PRIMARY KEY,
    name VARCHAR(50),
    email VARCHAR(50)
);

CREATE TABLE orders (
    order_id INT PRIMARY KEY,
    customer_id INT,
    order_date DATE,
    total_amount DECIMAL(10, 2),
    FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
);

INSERT INTO customers (customer_id, name, email)
VALUES
    (1, 'John Doe', 'john@example.com'),
    (2, 'Jane Smith', 'jane@example.com'),
    (3, 'Mark Johnson', 'mark@example.com');

INSERT INTO orders (order_id, customer_id, order_date, total_amount)
VALUES
    (101, 1, '2023-05-01', 100.50),
    (102, 1, '2023-05-15', 250.75),
```

(103, 2, '2023-05-02', 50.00),

(104, 3, '2023-05-10', 75.20);

```
SELECT customers.name, orders.order_id, orders.order_date, orders.total_amount
FROM customers
JOIN orders ON customers.customer_id = orders.customer_id;
```

The above SQL query uses the `JOIN` clause to join the `customers` and `orders` tables on the `customer_id` column. It selects the customer's name, along with the order ID, order date, and total amount for each order.

OUTPUT:

Output:

name	order_id	order_date	total_amount
John Doe	101	2023-05-01	100.50
John Doe	102	2023-05-15	250.75
Jane Smith	103	2023-05-02	50.00
Mark Johnson	104	2023-05-10	75.20

3) MONGODB CODE FOR CREATE, DELETE AND INSERT:

CODE:

```
db.customers.insertOne({ name: "John Doe", email: "john@example.com" });
db.customers.find();
db.customers.find({ name: "John Doe" });
db.customers.updateOne({ name: "John Doe" }, { $set: { email: "john.doe@example.com" } });
db.customers.updateMany({ name: "John Doe" }, { $set: { email: "john.doe@example.com" } });
db.customers.deleteOne({ name: "John Doe" });
db.customers.deleteMany({ name: "John Doe" });
```

OUTPUT:

Output

```
 mycompiler_mongodb>
mycompiler_mongodb>
mycompiler_mongodb>
mycompiler_mongodb> {
  acknowledged: true,
  insertedId: ObjectId("6472e7f0f8cc12925c87428a")
}
mycompiler_mongodb> [
  {
    _id: ObjectId("6472e7f0f8cc12925c87428a"),
    name: 'John Doe',
    email: 'john@example.com'
  }
]
```

```
mycompiler_mongodb> [
  {
    _id: ObjectId("6472e7f0f8cc12925c87428a"),
    name: 'John Doe',
    email: 'john@example.com'
  }
]
mycompiler_mongodb> {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

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

[Execution complete with exit code 0]
```