Week 2 Assignment

**Q1**

CREATE TABLE customers (

  id INT PRIMARY KEY AUTO\_INCREMENT,

  name VARCHAR(50),

  email VARCHAR(50));

INSERT INTO customers (name, email) VALUES

  ('John Doe', 'john@gmail.com'),

  ('Jane Smith', 'jane@gmail.com');

UPDATE customers

SET email = 'johndoe@gmail.com'

WHERE id = 1;

DELETE FROM customers

WHERE id = 2;

**Q2**

CREATE TABLE customers (

  id INT PRIMARY KEY AUTO\_INCREMENT,

  name VARCHAR(50),

  email VARCHAR(50));

-- Create table

CREATE TABLE orders (

  id INT PRIMARY KEY AUTO\_INCREMENT,

  customer\_id INT,

  product VARCHAR(50),

  quantity INT,

  FOREIGN KEY (customer\_id) REFERENCES customers(id));

INSERT INTO customers (name, email) VALUES

  ('John Doe', 'john@example.com'),

  ('Jane Smith', 'jane@example.com');

INSERT INTO orders (customer\_id, product, quantity) VALUES

  (1, 'Product A', 2),

  (2, 'Product B', 3),

  (1, 'Product C', 1);

SELECT customers.name, orders.product, orders.quantity

FROM customers

INNER JOIN orders ON customers.id = orders.customer\_id;

SELECT customers.name, orders.product, orders.quantity

FROM customers

LEFT JOIN orders ON customers.id = orders.customer\_id;

SELECT customers.name, orders.product, orders.quantity

FROM customers

RIGHT JOIN orders ON customers.id = orders.customer\_id;

FULL OUTER JOIN directly, so we simulate it using a UNION of LEFT JOIN and RIGHT JOIN)

SELECT customers.name, orders.product, orders.quantity

FROM customers

LEFT JOIN orders ON customers.id = orders.customer\_id

UNION

SELECT customers.name, orders.product, orders.quantity

FROM customers

RIGHT JOIN orders ON customers.id = orders.customer\_id;

**Q3**

const conn = new Mongo();

const db = conn.getDB('your\_database\_name');

db.customers.insertOne({

  name: 'Shreyam Mukherjee',

  email: 'shreyam@example.com'});

db.customers.updateOne(

  { name: 'Shreyam Mukherjee' },

  { $set: { email: 'shreyammukherjee@example.com' } });

db.customers.deleteOne({ name: 'Shreyam Mukherjee' });