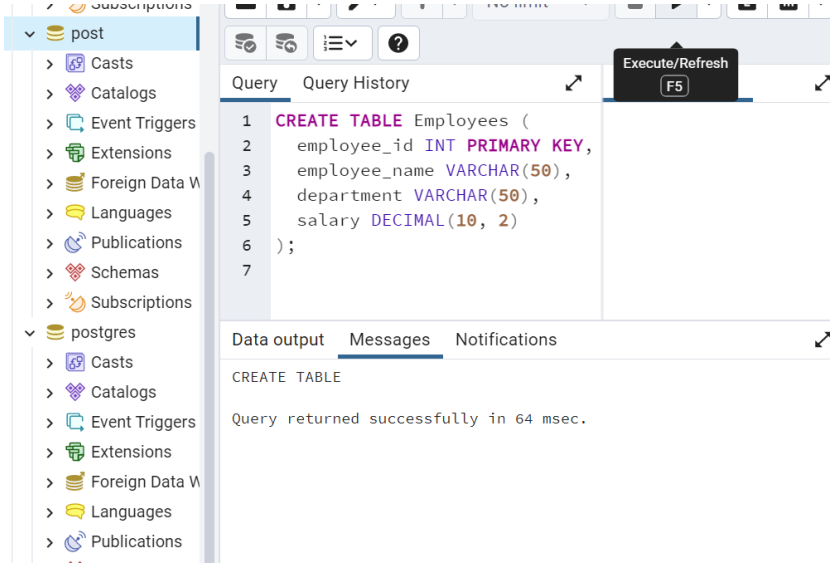
ASSIGNMENT –2

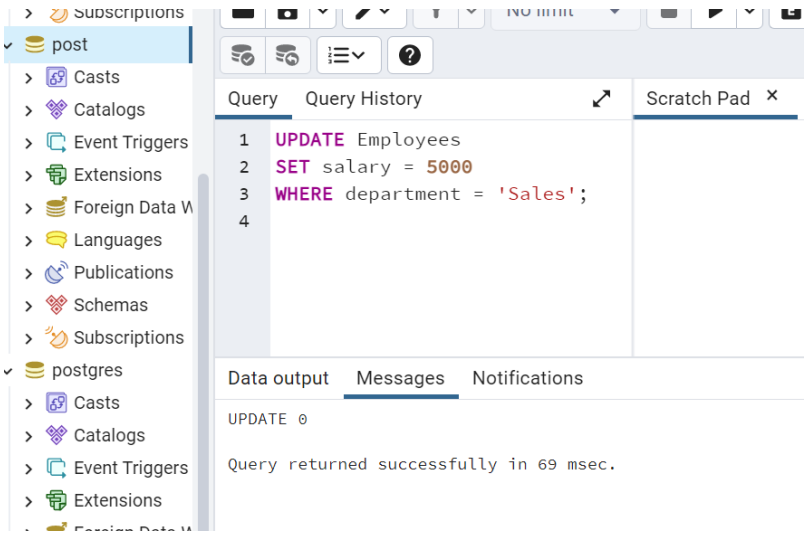
CREATE , UPDATE , DELETE COMMANDS IN MYSQL

CODE:

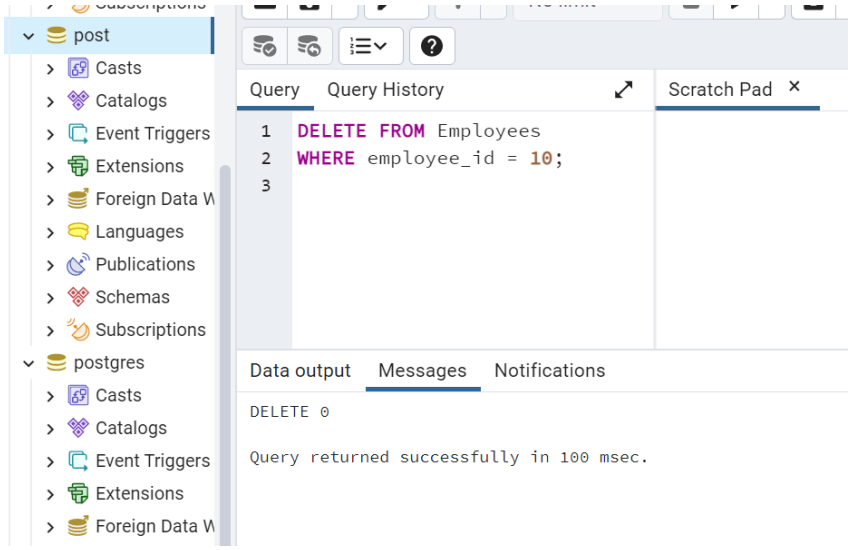
```
CREATE TABLE Employees (
  employee_id INT PRIMARY KEY,
  employee_name VARCHAR(50),
  department VARCHAR(50),
  salary DECIMAL(10, 2)
);
```




```
DELETE FROM Employees
WHERE employee_id = 10;
```




```
DELETE FROM Employees
WHERE employee_id = 10;
```



CREATE TABLES AND PERFORM JOINS IN MYSQL

CODE:


SQLTools Settings
hi.sql
hi.sql
Run on active connection | Select block
CREATE TABLE Customers (
customer_id INT PRIMARY KEY,
customer_name VARCHAR(50),
email VARCHAR(50)
);
INSERT INTO Customers (customer_id, customer_name, email)
VALUES
(1, 'John Doe', 'john@example.com'),
(2, 'Jane Smith', 'jane@example.com'),
(3, 'Mike Johnson', 'mike@example.com');
CREATE TABLE Orders (
order_id INT PRIMARY KEY,
customer_id INT,
product_name VARCHAR(50),
quantity INT,
FOREIGN KEY (customer_id) REFERENCES Customers(customer_id)
);
INSERT INTO Orders (order_id, customer_id, product_name, quantity)
VALUES
(1, 1, 'Product A', 2),
(2, 2, 'Product B', 1),
(3, 1, 'Product C', 3);
SELECT Customers.customer_name, Orders.product_name, Orders.quantity
FROM Customers
JOIN Orders ON Customers.customer_id = Orders.customer_id;
-- Perform an inner join
SELECT Customers.customer_name, Orders.product_name, Orders.quantity
FROM Customers
INNER JOIN Orders ON Customers.customer_id = Orders.customer_id;
-- Perform a left join
SELECT Customers.customer_name, Orders.product_name, Orders.quantity
FROM Customers
LEFT JOIN Orders ON Customers.customer_id = Orders.customer_id;
-- Perform a right join
SELECT Customers.customer_name, Orders.product_name, Orders.quantity
FROM Customers
RIGHT JOIN Orders ON Customers.customer_id = Orders.customer_id;
-- Perform a full outer join (MySQL doesn't have a built-in full outer join, so we use a UNION)
SELECT Customers.customer_name, Orders.product_name, Orders.quantity
FROM Customers
LEFT JOIN Orders ON Customers.customer_id = Orders.customer_id
UNION
SELECT Customers.customer_name, Orders.product_name, Orders.quantity
FROM Customers
RIGHT JOIN Orders ON Customers.customer_id = Orders.customer_id;

Query Query History

```sql
-- Perform a full outer join (MySQL doesn't have a built-in full outer
SELECT Customers.customer_name, Orders.product_name, Orders.quantity
FROM Customers
LEFT JOIN Orders ON Customers.customer_id = Orders.customer_id
UNION
SELECT Customers.customer_name, Orders.product_name, Orders.quantity
FROM Customers
RIGHT JOIN Orders ON Customers.customer_id = Orders.customer_id;
```

Data output Messages Notifications

	customer_name character varying (50)	product_name character varying (50)	quantity integer
1	Jane Smith	Product B	1
2	John Doe	Product C	3
3	John Doe	Product A	2
4	Mike Johnson	[null]	[null]

CREATE , UPDATE, DELETE COMMANDS IN MONGO

```javascript
//creating a document

const MongoClient = require('mongodb').MongoClient;

const url = 'mongodb://localhost:27017'; // MongoDB connection URL
const dbName = 'mydatabase'; // Name of your database

MongoClient.connect(url, function(err, client) {
  if (err) throw err;

  const db = client.db(dbName);

  const collection = db.collection('employees'); // Name of your collection

  const newEmployee = { employee_id: 1, employee_name: 'John Doe', department: 'Sales',

  collection.insertOne(newEmployee, function(err, result) {
    if (err) throw err;

    console.log('Document inserted successfully!');

    client.close();
  });
});
```

```
// updating a document

const MongoClient = require('mongodb').MongoClient;

const url = 'mongodb://localhost:27017'; // MongoDB connection URL
const dbName = 'mydatabase'; // Name of your database

MongoClient.connect(url, function(err, client) {
  if (err) throw err;

  const db = client.db(dbName);

  const collection = db.collection('employees'); // Name of your collection

  const filter = { employee_id: 1 };
  const update = { $set: { salary: 5500 } };

  collection.updateOne(filter, update, function(err, result) {
    if (err) throw err;

    console.log('Document updated successfully!');

    client.close();
  });
});
```

```
//deleting a document

const MongoClient = require('mongodb').MongoClient;

const url = 'mongodb://localhost:27017'; // MongoDB connection URL
const dbName = 'mydatabase'; // Name of your database

MongoClient.connect(url, function(err, client) {
  if (err) throw err;

  const db = client.db(dbName);

  const collection = db.collection('employees'); // Name of your collection

  const filter = { employee_id: 1 };

  collection.deleteOne(filter, function(err, result) {
    if (err) throw err;

    console.log('Document deleted successfully!');

    client.close();
  });
});
```