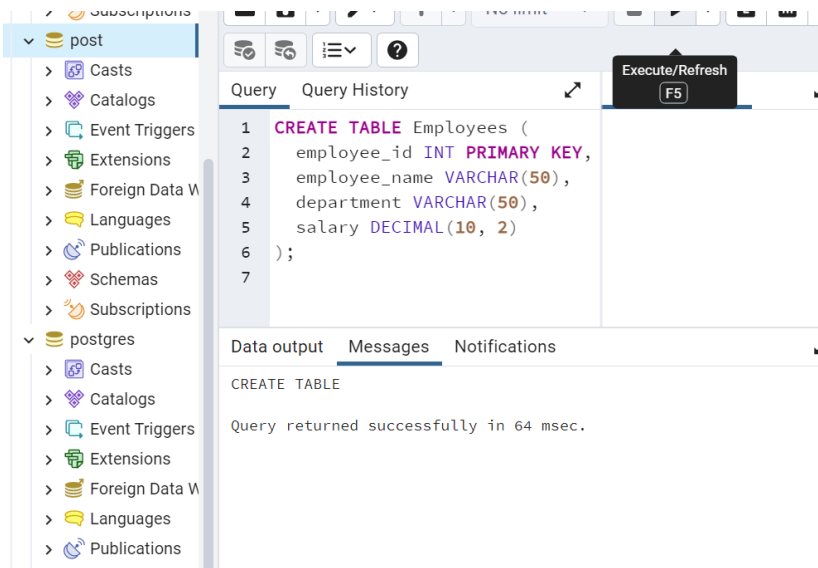


ASSIGNMENT –2

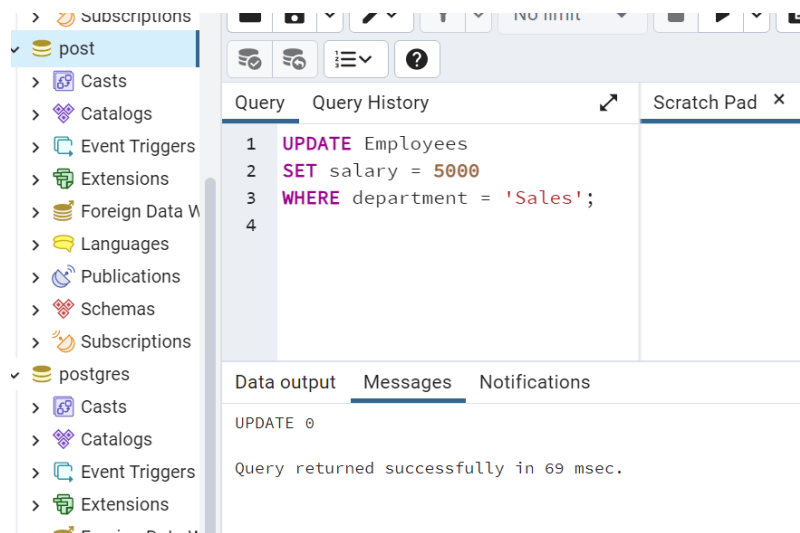
CREATE , UPDATE , DELETE COMMANDS IN MYSQL

CODE:

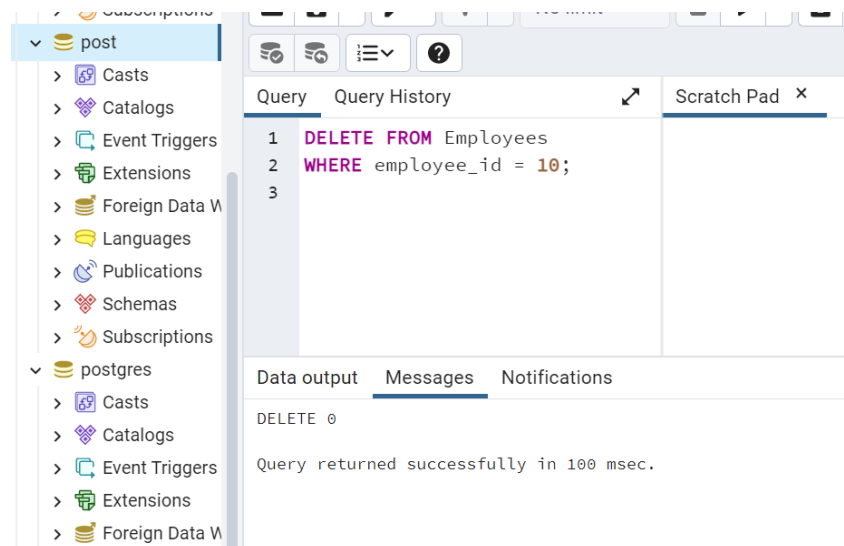
```
CREATE TABLE Employees (  
    employee_id INT PRIMARY KEY,  
    employee_name VARCHAR(50),  
    department VARCHAR(50),  
    salary DECIMAL(10, 2)  
);
```



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



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



CREATE TABLES AND PERFORM JOINS IN MYSQL

CODE:

```
SQLTools Settings  hisql  X
hisql
Run on active connection | Select block

1
2 CREATE TABLE Customers (
3     customer_id INT PRIMARY KEY,
4     customer_name VARCHAR(50),
5     email VARCHAR(50)
6 );
7
8 INSERT INTO Customers (customer_id, customer_name, email)
9 VALUES
10 (1, 'John Doe', 'john@example.com'),
11 (2, 'Jane Smith', 'jane@example.com'),
12 (3, 'Mike Johnson', 'mike@example.com');
13
14 CREATE TABLE Orders (
15     order_id INT PRIMARY KEY,
16     customer_id INT,
17     product_name VARCHAR(50),
18     quantity INT,
19     FOREIGN KEY (customer_id) REFERENCES Customers(customer_id)
20 );
21
22 INSERT INTO Orders (order_id, customer_id, product_name, quantity)
23 VALUES
24 (1, 1, 'Product A', 2),
25 (2, 2, 'Product B', 1),
26 (3, 1, 'Product C', 3);
27
28 SELECT Customers.customer_name, Orders.product_name, Orders.quantity
29 FROM Customers
30 JOIN Orders ON Customers.customer_id = Orders.customer_id;
31
32 -- Perform an inner join
33 SELECT Customers.customer_name, Orders.product_name, Orders.quantity
34 FROM Customers
35 INNER JOIN Orders ON Customers.customer_id = Orders.customer_id;
36
37 -- Perform a left join
38 SELECT Customers.customer_name, Orders.product_name, Orders.quantity
39 FROM Customers
40 LEFT JOIN Orders ON Customers.customer_id = Orders.customer_id;
41
42 -- Perform a right join
43 SELECT Customers.customer_name, Orders.product_name, Orders.quantity
44 FROM Customers
45 RIGHT JOIN Orders ON Customers.customer_id = Orders.customer_id;
46
47 -- Perform a full outer join (MySQL doesn't have a built-in full outer join, so we use a UNION)
48 SELECT Customers.customer_name, Orders.product_name, Orders.quantity
49 FROM Customers
50 LEFT JOIN Orders ON Customers.customer_id = Orders.customer_id
51 UNION
52 SELECT Customers.customer_name, Orders.product_name, Orders.quantity
53 FROM Customers
54 RIGHT JOIN Orders ON Customers.customer_id = Orders.customer_id;
55
```

Query Query History

```
50 -- Perform a full outer join (MySQL doesn't have a built-in full outer join)
51 SELECT Customers.customer_name, Orders.product_name, Orders.quantity
52 FROM Customers
53 LEFT JOIN Orders ON Customers.customer_id = Orders.customer_id
54 UNION
55 SELECT Customers.customer_name, Orders.product_name, Orders.quantity
56 FROM Customers
57 RIGHT JOIN Orders ON Customers.customer_id = Orders.customer_id;
58
```

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

```
1 //creating a document
2
3 const MongoClient = require('mongodb').MongoClient;
4
5 const url = 'mongodb://localhost:27017'; // MongoDB connection URL
6 const dbName = 'mydatabase'; // Name of your database
7
8 MongoClient.connect(url, function(err, client) {
9   if (err) throw err;
10
11   const db = client.db(dbName);
12
13   const collection = db.collection('employees'); // Name of your collection
14
15   const newEmployee = { employee_id: 1, employee_name: 'John Doe', department: 'Sales', salary: 1000 };
16
17   collection.insertOne(newEmployee, function(err, result) {
18     if (err) throw err;
19
20     console.log('Document inserted successfully!');
21
22     client.close();
23   });
24 });
25
```

```

26 // updating a document
27
28 const MongoClient = require('mongodb').MongoClient;
29
30 const url = 'mongodb://localhost:27017'; // MongoDB connection URL
31 const dbName = 'mydatabase'; // Name of your database
32
33 MongoClient.connect(url, function(err, client) {
34   if (err) throw err;
35
36   const db = client.db(dbName);
37
38   const collection = db.collection('employees'); // Name of your collection
39
40   const filter = { employee_id: 1 };
41   const update = { $set: { salary: 5500 } };
42
43   collection.updateOne(filter, update, function(err, result) {
44     if (err) throw err;
45
46     console.log('Document updated successfully!');
47
48     client.close();
49   });
50 });
51

```

```

51
52 //deleting a document
53
54 const MongoClient = require('mongodb').MongoClient;
55
56 const url = 'mongodb://localhost:27017'; // MongoDB connection URL
57 const dbName = 'mydatabase'; // Name of your database
58
59 MongoClient.connect(url, function(err, client) {
60   if (err) throw err;
61
62   const db = client.db(dbName);
63
64   const collection = db.collection('employees'); // Name of your collection
65
66   const filter = { employee_id: 1 };
67
68   collection.deleteOne(filter, function(err, result) {
69     if (err) throw err;
70
71     console.log('Document deleted successfully!');
72
73     client.close();
74   });
75 });
76

```