# **ASSIGNMENT-2**

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# Creating a Table:

#### CODE:

```
CREATE TABLE Employee(
Empld int,
LastName varchar(255),
FirstName varchar(255),
Address varchar(255),
City varchar(255)
);
```

# **SCREENSHOT:**

```
-- Online SQL Editor to Run SQL Online.
-- Use the editor to create new tables, insert data and all other SQL operations.

CREATE TABLE Employee(
    EmpId int,
    LastName varchar(255),
    FirstName varchar(255),
    Address varchar(255),
    City varchar(255))
);
```

#### **OUTPUT:**



# Inserting Values in the table:

#### CODE:

```
INSERT INTO Employee(Empld,LastName,FirstName,ADDRESS,City)

VALUES (1, 'pooja', 'Khushi', 'India', 'Delhi' );

INSERT INTO Employee (Empld,LastName,FirstName,ADDRESS,City)

VALUES (2, 'vivek', 'Y', 'India', 'Mumbai' );
```

#### **INSERT INTO Employee**

VALUES (3, 'Krishna', 'C', 'India', 'Chennai');

# **SCREENSHOT:**

```
INSERT INTO Employee(EmpId,LastName,FirstName,ADDRESS,City)
VALUES (1, 'pooja', 'Khushi', 'India', 'Delhi' );
INSERT INTO Employee (EmpId,LastName,FirstName,ADDRESS,City)
VALUES (2, 'vivek', 'Y', 'India', 'Mumbai' );

INSERT INTO Employee
VALUES (3, 'Krishna', 'C', 'India', 'Chennai' );
```

#### **OUTPUT:**

#### **Employee**

Empld	LastName	FirstName	Address	City
1	pooja	Khushi	India	Delhi
2	vivek	Υ	India	Mumbai
3	Krishna	С	India	Chennai

# **Updating a Table:**

a) Updating single row:

#### CODE:

**UPDATE Employee** 

SET FirstName= 'sravs', City= 'Hyderabad'

WHERE Empld= 1;

# **SCREENSHOT:**

```
UPDATE Employee
SET FirstName= 'sravs', City= 'Hyderabad'
WHERE EmpId= 1;
Run SQL
```

# **OUTPUT:**

mpld	LastName	FirstName	Address	City
	pooja	sravs	India	Hyderabad
	vivek	Υ	India	Mumbai
3	Krishna	С	India	Chennai

b) Updating multiple rows:

#### CODE:

**UPDATE Employee** 

SET City='Delhi'

#### **SCREENSHOT:**



# **OUTPUT:**

mpld	LastName	FirstName	Address	City
l	pooja	sravs	India	Delhi
2	vivek	Υ	India	Delhi
3	Krishna	С	India	Delhi

# Deleting:

a) Deleting single row:

# CODE:

DELETE FROM Employee WHERE Empld=3;

# **SCREENSHOT:**



# **OUTPUT:**

#### **Employee**

Empld	LastName	FirstName	Address	City
1	pooja	sravs	India	Delhi
2	vivek	Υ	India	Delhi

b) Deleting all records:

# CODE:

DELETE From Employee



## **OUTPUT:**

#### **Employee**

Empld	LastName	FirstName	Address	City
empty				

# Creating tables and performing Joins:

#### Creating a Tables:

#### TABLE 1:

```
CREATE TABLE Orderss(
Orderld int,
Customerld int,
City varchar(255)
);

INSERT INTO Orderss
VALUES (101,2,'Hyderabad'),
(102,33,'mumbai'),
(103,40,'Delhi');
```

```
CREATE TABLE Orderss(
OrderId int,
CustomerId int,
City varchar(255)
);

INSERT INTO Orderss
VALUES (101,2,'Hyderabad'),
(102,33,'mumbai'),
(103,40,'Delhi');
```

# **OUTPUT:**

#### **Orderss**

OrderId	CustomerId	City
101	2	Hyderabad
102	33	mumbai
103	40	Delhi

#### TABLE 2:

# CODE:

```
CREATE TABLE Customerss(
   CustomerId int,
   CustomerName varchar(255),
   LastName varchar(255),
   Country varchar(255)
);
```

#### **INSERT INTO Customerss**

```
VALUES (1,'pooja', 'CH','India'),
(2,'vivek', 'Y','Australia'),
(3,'krishna', 'p','USA'),
(4,'rucha', 'G','India');
```

```
CREATE TABLE Customerss(
    CustomerId int,
    CustomerName varchar(255),
    LastName varchar(255),
    Country varchar(255)
);

INSERT INTO Customerss
VALUES (1, 'pooja', 'CH', 'India'),|
(2, 'vivek', 'Y', 'Australia'),
(3, 'krishna', 'p', 'USA')
(4, 'rucha', 'G', 'India');
```

#### **OUTPUT:**

#### Customerss

CustomerId	CustomerName	LastName	Country
1	pooja	СН	India
2	vivek	Y	Australia
3	krishna	Р	USA
4	ruch	G	India

**Performing Joins:** 

Inner Join:

#### CODE:

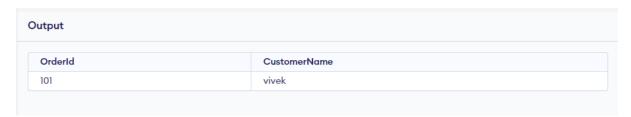
SELECT Orderss.OrderID, Customerss.CustomerName

**FROM Orderss** 

INNER JOIN Customerss ON Orderss.CustomerID = Customerss.CustomerID;



# **OUTPUT:**



#### Left Join:

# CODE:

SELECT Customerss.CustomerName, Orderss.OrderID

**FROM Customerss** 

LEFT JOIN Orderss ON Customerss.CustomerID = Orderss.CustomerID

ORDER BY Customerss.CustomerName;

# **SCREENSHOT:**



#### **OUTPUT:**

CustomerName	Orderld
krishna	
pooja	
vivek	101

#### Right Join:

#### CODE:

 ${\tt SELECT\ Orderss. CustomerId, Customerss. CustomerName, Customerss. LastName}$ 

**FROM Orderss** 

**RIGHT JOIN Customerss** 

ON Orderss.CustomerId = Customerss.CustomerId

ORDER BY Orderss.OrderID;

#### **SCREENSHOT:**

```
SELECT Orderss.CustomerId,Customerss.CustomerName,Customerss.LastName
FROM Orderss
RIGHT JOIN Customerss
ON Orderss.CustomerId = Customerss.CustomerId
ORDER BY Orderss.OrderID;
```

# **OUTPUT:**

#### Output

```
CustomerId CustomerName LastName
NULL pooja CH
NULL krishna p
NULL rucha G
2 vivek Y

[Execution complete with exit code 0]
```

#### Full outer Join:

#### CODE:

SELECT Customerss.CustomerName, Orderss.OrderID

**FROM Customerss** 

LEFT JOIN Orderss ON Customerss.CustomerID = Orderss.CustomerID

ORDER BY Customerss.CustomerName;

**UNION** 

 ${\tt SELECT\ Orderss. CustomerId, Customerss. CustomerName, Customerss. LastName}$ 

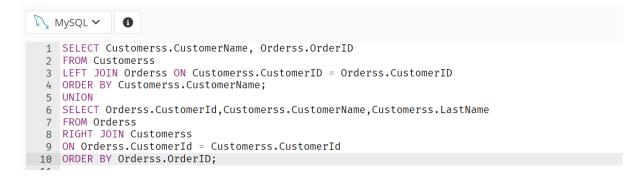
**FROM Orderss** 

**RIGHT JOIN Customerss** 

ON Orderss.CustomerId = Customerss.CustomerId

ORDER BY Orderss.OrderID;

#### **SCREENSHOT:**



#### **OUTPUT:**

# Output CustomerName OrderID krishna NULL pooja NULL rucha NULL vivek 101

#### Cross Join:

# CODE:

SELECT Customerss.CustomerName, Orderss.OrderID

**FROM Customerss** 

**CROSS JOIN Orderss;** 

#### **SCREENSHOT:**

```
SELECT Customerss.CustomerName, Orderss.OrderID
FROM Customerss
CROSS JOIN Orderss;
```

# **OUTPUT:**

CustomerName	Orderld
oooja	101
oooja	102
oooja	103
vivek	101
rivek	102
vivek	103

#### Self Join:

SELECT A.CustomerName AS C1, B.CustomerName AS C2

FROM Customerss A, Customerss B

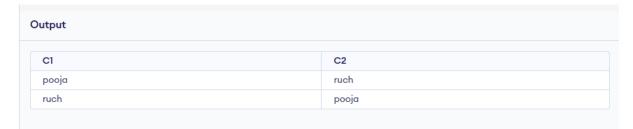
WHERE A.CustomerID <> B.CustomerID

AND A.Country = B.Country

ORDER BY A.Country;

```
SELECT A.CustomerName AS C1, B.CustomerName AS C2
FROM Customerss A , Customerss B
WHERE A.CustomerID <> B.CustomerID
AND A.Country = B.Country
ORDER BY A.Country;
```

# **OUTPUT:**



# MongoDB:

# **CREATING AND INSERTING:**

a) Inserting one document:

)

#### **SCREENSHOT:**

#### **OUTPUT:**

```
Output

mycompiler_mongodb> ... ... {
  acknowledged: true,
  insertedId: ObjectId("6473aba0526997f71675f4d6")
}
mycompiler_mongodb>

[Execution complete with exit code 0]
```

b) Inserting Many:

#### **OUTPUT:**

```
mycompiler_mongodb> ... ... {
   acknowledged: true,
   insertedIds: {
      '0': ObjectId("6473ac53e33b266674923789"),
      '1': ObjectId("6473ac53e33b26667492378a"),
      '2': ObjectId("6473ac53e33b26667492378b"),
      '3': ObjectId("6473ac53e33b26667492378c"),
      '4': ObjectId("6473ac53e33b26667492378d"),
      '5': ObjectId("6473ac53e33b26667492378e")
   }
}
mycompiler_mongodb>

[Execution complete with exit code 0]
```

#### **UPDATING:**

a) Single document:

```
db.monuments.updateOne(
    { "name": "Arc de Triomphe" },
    {
      $set: { "name": "Arc de Triomphe de l'Étoile" }
    }
}
```

# **OUTPUT:**

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

[Execution complete with exit code 0]
```

b) Updating many:

```
db.monuments.updateMany(
    { },
    {
      $set: { "editor": "Sammy" }
    }
}
```

# **OUTPUT:**

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

[Execution complete with exit code 0]
```

#### Deleting:

a) Deleting one document:

#### CODE:

```
db.monuments.deleteOne(
    { "name": "Arc de Triomphe de l'Étoile" }
)
```

# **SCREENSHOT:**

#### **OUTPUT:**

```
mycompiler_mongodb> ... ... { acknowledged: true, deletedCount: 0 }
mycompiler_mongodb>

[Execution complete with exit code 0]
```

b) Deleting many:

#### CODE:

```
db.monuments.deleteMany(
   { "editor": "Sammy" }
)
```

#### **SCREENSHOT:**

```
MongoDB V

1 db.monuments.deleteMany()
2 { "editor": "Sammy" }
3 )
```

## **OUTPUT:**

```
mycompiler_mongodb>
mycompiler_mongodb>
mycompiler_mongodb> ... ... { acknowledged: true, deletedCount: 6 }
mycompiler_mongodb>

[Execution complete with exit code 0]
```