Assignment - 04

4) Join Operations

AIM

To perform all types of join operations to join the columns of two or more table.

Materials required

Data moduler software, SQL.

procedure

* To create all the tables in which join operation need to be performed.
* Write query for all types of joins.

Types and queries

→ Inner join

```
select o. orderID,
    C. CustomerName,
    o. OrderDate
from orders o
inner join customers on
o. customer ID = C. CustomerID;
```

OrderID	Customer name	Order Date.
100	Jai	9/8/2023
101	Jeevi	11/7/2017
102	Surya	12/7/2006
103	Suriya	13/12/2013
104	Anitha	08/09/2019

→ left join
```sql
select c. customerName,
       o. order ID
From customers c
left customers c
left join orders o an
c. Customer ID = O. Customer ID
Order by c. customer Name;
```

→ Right join →↑↑
```sql
select O. orders ID,
   e. last Name,
   e. First Name,
   from orders o
   right join employees e on
   O. employee ID = e. employee ID
   order by O. order ID;
```

→ Full outer join op↑ ←↑
```sql
select customers. customer name,
orders. order ID
from customers
full outer join orders on
customers. customer ID = orders. customer ID
order by customers. customer name;
```

→ self join op↑
```sql
select a. customer name  as customer name1,
       b. customer name  as customer name2,
       a. city
from customers A, customers B
where a. customer ID <> b. customer ID.
and a. city = b. city
order by a. city;
```

customer name 1	customer name 2	city
jai	Vicky	chennai
jeevi	philip	Hyderabad
surya	joe	chennai
Anitha	Hari	chennai
Suriya	Vikesh	Hyderabad

Result

All the join operations are performed on 2 tables orders and customers.

customer name 1	customer name 2	city
jai	Vicky	chennai
jeevi	philip	Hyderabad