Join

Join is used to fetch the recored the from more than two table.

**Type of join:**

1. Simple Join( Inner Join )

2. Left Join (Left Outer Join)

3. Right Join (Right Outer Join)

4. Full Join (Outer Join)

It find the recored from two table according to the some common column in that table.

Similar as intersection:

Table:Registration

|  |  |  |
| --- | --- | --- |
| UserId | UserName | Contact |
| 101 | Amit | 9902849402 |
| 102 | Teqhub | 9999999999 |
| 103 | Sumit | 0000000000 |

Table:Orders

|  |  |  |  |
| --- | --- | --- | --- |
| Order\_id | User\_Id | ProName | OrderDate |
| 10000 | 101 | Redmi | 22-04-2019 |
| 10002 | 102 | Iphone | 23-04-2019 |
| 10003 | 101 | HeadPhone | 24-04-2019 |
| 10004 | 105 | Laptop | 25-04-2019 |

Select Registration.UserName, Registation.contact, Order.ProName, Order.OrderDate

from Registation inner join Order

on

Registaion.UserId=Order.User\_Id

Return Data Table:

|  |  |  |  |
| --- | --- | --- | --- |
| UserName | contact | ProName | OrderDate |
| Amit | 9902849402 | Redmi | 22-04-2019 |
| Amit | 9902849402 | HeadPhone | 24-04-2019 |
| Teqhub | 9999999999 | Iphone | 23-04-2019 |

2. Left Join

Table:Registration

|  |  |  |
| --- | --- | --- |
| UserId | UserName | Contact |
| 101 | Amit | 9902849402 |
| 102 | Teqhub | 9999999999 |
| 103 | Sumit | 0000000000 |

Table:Orders

|  |  |  |  |
| --- | --- | --- | --- |
| Order\_id | User\_Id | ProName | OrderDate |
| 10000 | 101 | Redmi | 22-04-2019 |
| 10002 | 102 | Iphone | 23-04-2019 |
| 10003 | 101 | HeadPhone | 24-04-2019 |
| 10004 | 105 | Laptop | 25-04-2019 |

Select Registation.UserId,Registration.UserName, Registation.contact, Order.ProName, Order.OrderDate

from Registation Left join Order

on

Registaion.UserId=Order.User\_Id

Return Data Table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UserId | UserName | contact | ProName | OrderDate |
| 101 | Amit | 9902849402 | Redmi | 22-04-2019 |
| 101 | Amit | 9902849402 | HeadPhone | 24-04-2019 |
| 102 | Teqhub | 9999999999 | Iphone | 23-04-2019 |
| 103 | Sumit | 0000000000 | Null | Null |
|  |  |  |  |  |

3. Right Join

Table:Registration

|  |  |  |
| --- | --- | --- |
| UserId | UserName | Contact |
| 101 | Amit | 9902849402 |
| 102 | Teqhub | 9999999999 |
| 103 | Sumit | 0000000000 |

Table:Orders

|  |  |  |  |
| --- | --- | --- | --- |
| Order\_id | User\_Id | ProName | OrderDate |
| 10000 | 101 | Redmi | 22-04-2019 |
| 10002 | 102 | Iphone | 23-04-2019 |
| 10003 | 101 | HeadPhone | 24-04-2019 |
| 10004 | 105 | Laptop | 25-04-2019 |

Select Registation.UserId,Registration.UserName, Registation.contact, Order.ProName, Order.OrderDate

from Registation Right join Order

on

Registaion.UserId=Order.User\_Id

Return Data Table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UserId | UserName | contact | ProName | OrderDate |
| 101 | Amit | 9902849402 | Redmi | 22-04-2019 |
| 101 | Amit | 9902849402 | HeadPhone | 24-04-2019 |
| 102 | Teqhub | 9999999999 | Iphone | 23-04-2019 |
| null | Null | null | Laptop | 25-04-2019 |
|  |  |  |  |  |

3. Full Outer Join

Table:Registration

|  |  |  |
| --- | --- | --- |
| UserId | UserName | Contact |
| 101 | Amit | 9902849402 |
| 102 | Teqhub | 9999999999 |
| 103 | Sumit | 0000000000 |

Table:Orders

|  |  |  |  |
| --- | --- | --- | --- |
| Order\_id | User\_Id | ProName | OrderDate |
| 10000 | 101 | Redmi | 22-04-2019 |
| 10002 | 102 | Iphone | 23-04-2019 |
| 10003 | 101 | HeadPhone | 24-04-2019 |
| 10004 | 105 | Laptop | 25-04-2019 |

Select Registation.UserId,Registration.UserName, Registation.contact, Order.ProName, Order.OrderDate

from Registation full outer join Order

on

Registaion.UserId=Order.User\_Id

Return Data Table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UserId | UserName | contact | ProName | OrderDate |
| 101 | Amit | 9902849402 | Redmi | 22-04-2019 |
| 101 | Amit | 9902849402 | HeadPhone | 24-04-2019 |
| 102 | Teqhub | 9999999999 | Iphone | 23-04-2019 |
| null | Null | null | Laptop | 25-04-2019 |
| 103 | Sumit | 0000000000 | Null | Null |