LEFT INCLUSIVE

RIGHT INCLUSIVE

LEFT EXCLUSIVE

RIGHT EXCLUSIVE

FULL OUTER INCLUSIVE

INNER JOIN

FULL OUTER EXCLUSIVE

SQL JOINS

LEFT INCLUSIVE	RIGHT INCLUSIVE
SELECT *[Select List]* FROM TableA A LEFT OUTER JOIN TableB B ON A.Key= B.Key	SELECT *[Select List]* FROM TableA A RIGHT OUTER JOIN TableB B ON A.Key= B.Key
LEFT EXCLUSIVE	**RIGHT EXCLUSIVE**
SELECT *[Select List]* FROM TableA A LEFT OUTER JOIN TableB B ON A.Key= B.Key WHERE B.Key IS NULL	SELECT *[Select List]* FROM TableA A LEFT OUTER JOIN TableB B ON A.Key= B.Key WHERE A.Key IS NULL
FULL OUTER INCLUSIVE	**FULL OUTER EXCLUSIVE**
SELECT *[Select List]* FROM TableA A FULL OUTER JOIN TableB B ON A.Key = B.Key	SELECT *[Select List]* FROM TableA A FULL OUTER JOIN TableB B ON A.Key = B.Key WHERE A.Key IS NULL OR B.Key IS NULL
INNER JOIN	
SELECT *[Select List]* FROM TableA A INNER JOIN TableB B ON A.Key = B.Key	

Table 1

Table 2

UNION of Table 1 and Table 2

UNION ALL

UNION and UNION ALL in SQL

BOARD
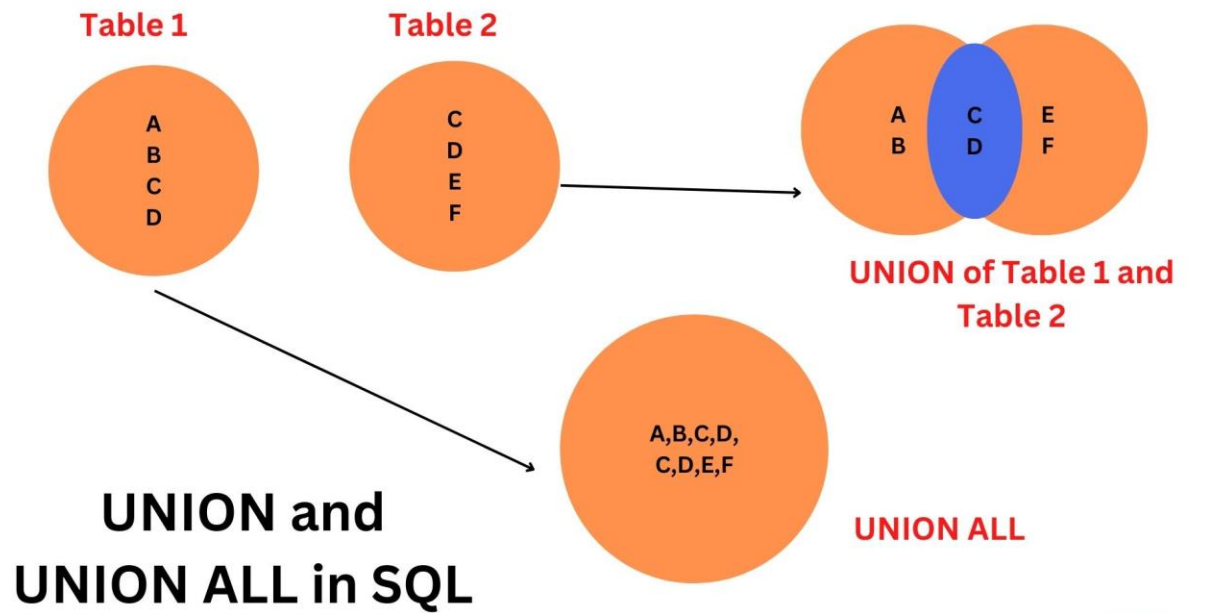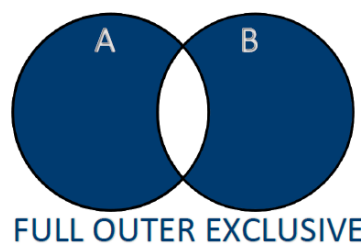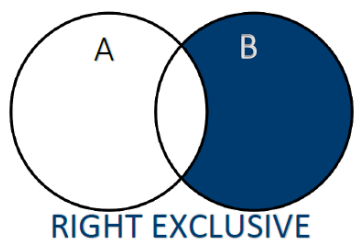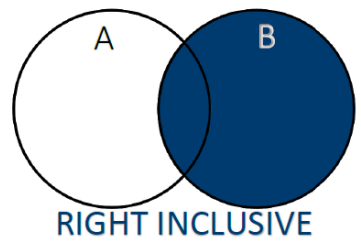
```sql
SELECT *
FROM SQLProject.dbo.EmployeeDemoGraphics
Left Outer Join SQLProject.dbo.EmployeeSalary
    ON EmployeeDemoGraphics.EmployeeId = EmployeeSalary.EmployeeID
```

100 % ▼ ◀

▦ Results 📄 Messages

|	EmployeeId	FirstName	LastName	Age	Gender	EmployeeID	JobTitle	Salary
1	101	Ram	Koirala	22	Male	101	Salesman	30000
2	102	Sita	Baral	34	Female	102	Receptionist	20000
3	103	Hari	Shah	33	Male	103	Accountant	32000
4	104	Ramesh	Parajuli	23	Male	104	Regional Manager	63000
5	105	Shyam	Rai	34	Male	105	Driver	34000
6	106	Padam	Pradhan	63	Male	106	Salesman	30000
7	107	Bikram	Thapa	33	Female	107	Guard	25000
8	108	Rohit	Paudel	19	Male	NULL	NULL	NULL
9	NULL	Gulson	Jha	17	Male	NULL	NULL	NULL
10	NULL	Shrijana	Shrestha	32	Female	NULL	NULL	NULL
11	111	Kedar	Rokaya	NULL	NULL	NULL	NULL	NULL
12	112	Ranjana	Giti	45	Female	NULL	NULL	NULL

```sql
SELECT *
FROM SQLProject.dbo.EmployeeDemoGraphics
Right Outer Join SQLProject.dbo.EmployeeSalary
    ON EmployeeDemoGraphics.EmployeeId = EmployeeSalary.EmployeeID
```

100 % ▼ ◀

▦ Results 📄 Messages

	EmployeeId	FirstName	LastName	Age	Gender	EmployeeID	JobTitle	Salary
1	101	Ram	Koirala	22	Male	101	Salesman	30000
2	102	Sita	Baral	34	Female	102	Receptionist	20000
3	103	Hari	Shah	33	Male	103	Accountant	32000
4	104	Ramesh	Parajuli	23	Male	104	Regional Manager	63000
5	105	Shyam	Rai	34	Male	105	Driver	34000
6	106	Padam	Pradhan	63	Male	106	Salesman	30000
7	107	Bikram	Thapa	33	Female	107	Guard	25000
8	NULL	NULL	NULL	NULL	NULL	NULL	Saler	42000
9	NULL	NULL	NULL	NULL	NULL	NULL	Technician	43000

```sql
SELECT EmployeeDemoGraphics.EmployeeId, FirstName, LastName, Salary
FROM SQLProject.dbo.EmployeeDemoGraphics
Inner Join SQLProject.dbo.EmployeeSalary
    ON EmployeeDemoGraphics.EmployeeId = EmployeeSalary.EmployeeID
WHERE FirstName <> 'Ram' -- Removing Ram from the dataset
ORDER BY Salary DESC

SELECT JobTitle, Salary
FROM SQLProject.dbo.EmployeeDemoGraphics
Inner Join SQLProject.dbo.EmployeeSalary
    ON EmployeeDemoGraphics.EmployeeId = EmployeeSalary.EmployeeID
WHERE JobTitle = 'Salesman'  -- selecting based on the jobatitle and salary of Salesman
ORDER BY Salary

SELECT JobTitle, AVG(Salary)
FROM SQLProject.dbo.EmployeeDemoGraphics
Inner Join SQLProject.dbo.EmployeeSalary
    ON EmployeeDemoGraphics.EmployeeId = EmployeeSalary.EmployeeID
WHERE JobTitle = 'Salesman'  -- selecting based on the jobatitle and salary of Salesman
GROUP BY JobTitle
```

100 % ▾ ◂

⊞ Results   📄 Messages

	EmployeeId	FirstName	LastName	Salary
1	104	Ramesh	Parajuli	63000
2	105	Shyam	Rai	34000
3	103	Hari	Shah	32000

	JobTitle	Salary
1	Salesman	30000
2	Salesman	30000

	JobTitle	(No column name)
1	Salesman	30000

✅ Query executed successfully.   DESKTOP-IVHRL

```sql
SELECT *
FROM SQLProject.dbo.EmployeeDemoGraphics

SELECT *
FROM SQLProject.dbo.EmployeeSalary

SELECT *
FROM SQLProject.dbo.EmployeeDemoGraphics
Inner Join SQLProject.dbo.EmployeeSalary
    ON EmployeeDemoGraphics.EmployeeId = EmployeeSalary.EmployeeID
```

100 % ▾ ◁

Results | **Messages**

	EmployeeId	FirstName	LastName	Age	Gender	EmployeeID	JobTitle	Salary
1	101	Ram	Koirala	22	Male	101	Salesman	30000
2	102	Sita	Baral	34	Female	102	Receptionist	20000
3	103	Hari	Shah	33	Male	103	Accountant	32000
4	104	Ramesh	Parajuli	23	Male	104	Regional Manager	63000
5	105	Shyam	Rai	34	Male	105	Driver	34000
6	106	Padam	Pradhan	63	Male	106	Salesman	30000
7	107	Bikram	Thapa	33	Female	107	Guard	25000

```sql
SELECT *
FROM SQLProject.dbo.EmployeeDemoGraphics
Full Outer Join SQLProject.dbo.EmployeeSalary
    ON EmployeeDemoGraphics.EmployeeId = EmployeeSalary.EmployeeID
```

100 % ▾ ◁

Results | **Messages**

	EmployeeId	FirstName	LastName	Age	Gender	EmployeeID	JobTitle	Salary
1	101	Ram	Koirala	22	Male	101	Salesman	30000
2	102	Sita	Baral	34	Female	102	Receptionist	20000
3	103	Hari	Shah	33	Male	103	Accountant	32000
4	104	Ramesh	Parajuli	23	Male	104	Regional Manager	63000
5	105	Shyam	Rai	34	Male	105	Driver	34000
6	106	Padam	Pradhan	63	Male	106	Salesman	30000
7	107	Bikram	Thapa	33	Female	107	Guard	25000
8	108	Rohit	Paudel	19	Male	NULL	NULL	NULL
9	NULL	Gulson	Jha	17	Male	NULL	NULL	NULL
10	NULL	Shrijana	Shrestha	32	Female	NULL	NULL	NULL
11	111	Kedar	Rokaya	NULL	NULL	NULL	NULL	NULL
12	112	Ranjana	Giti	45	Female	NULL	NULL	NULL
13	NULL	NULL	NULL	NULL	NULL	NULL	Saler	42000
14	NULL	NULL	NULL	NULL	NULL	NULL	Technician	43000

```
SELECT *
FROM SQLProject.dbo.EmployeeDemoGraphics
Full Outer Join SQLProject.dbo.WareHouseEmployeeDemoGraphics
    ON EmployeeDemoGraphics.EmployeeId = WareHouseEmployeeDemoGraphics.EmployeeID
```

100 %

Results | Messages

	EmployeeId	FirstName	LastName	Age	Gender	EmployeeID	FirstName	LastName	Age	Gender
1	101	Ram	Koirala	22	Male	NULL	NULL	NULL	NULL	NULL
2	102	Sita	Baral	34	Female	NULL	NULL	NULL	NULL	NULL
3	103	Hari	Shah	33	Male	NULL	NULL	NULL	NULL	NULL
4	104	Ramesh	Parajuli	23	Male	NULL	NULL	NULL	NULL	NULL
5	105	Shyam	Rai	34	Male	NULL	NULL	NULL	NULL	NULL
6	106	Padam	Pradhan	63	Male	NULL	NULL	NULL	NULL	NULL
7	107	Bikram	Thapa	33	Female	NULL	NULL	NULL	NULL	NULL
8	108	Rohit	Paudel	19	Male	NULL	NULL	NULL	NULL	NULL
9	NULL	Gulson	Jha	17	Male	NULL	NULL	NULL	NULL	NULL
10	NULL	Shrijana	Shrestha	32	Female	NULL	NULL	NULL	NULL	NULL
11	111	Kedar	Rokaya	NULL	NULL	NULL	NULL	NULL	NULL	NULL
12	112	Ranjana	Giti	45	Female	112	Rajan	BK	29	Male
13	NULL	NULL	NULL	NULL	NULL	123	Sandeep	Lamsal	26	Male
14	NULL	NULL	NULL	NULL	NULL	124	Sanjeeta	Sodari	28	Female
15	NULL	NULL	NULL	NULL	NULL	125	Ganga	Tamang	21	Female

```sql
SELECT *
FROM SQLProject.dbo.EmployeeDemoGraphics

SELECT *
FROM SQLProject.dbo.EmployeeSalary

SELECT *
```

100 %

Results | **Messages**

	EmployeeId	FirstName	LastName	Age	Gender
1	101	Ram	Koirala	22	Male
2	102	Sita	Baral	34	Female
3	103	Hari	Shah	33	Male
4	104	Ramesh	Parajuli	23	Male
5	105	Shyam	Rai	34	Male
6	106	Padam	Pradhan	63	Male
7	107	Bikram	Thapa	33	Female
8	108	Rohit	Paudel	19	Male
9	NULL	Gulson	Jha	17	Male
10	NULL	Shrijana	Shrestha	32	Female
11	111	Kedar	Rokaya	N...	NULL

	EmployeeID	JobTitle	Salary
1	101	Salesman	30000
2	102	Receptionist	20000
3	103	Accountant	32000
4	104	Regional ...	63000
5	105	Driver	34000
6	106	Salesman	30000
7	107	Guard	25000
8	NULL	Saler	42000
9	NULL	Technician	43000

✔ Query executed successfully.

DESKTOP-IVHR

```sql
SELECT *
FROM SQLProject.dbo.EmployeeDemoGraphics
UNION
SELECT *
FROM SQLProject.dbo.WareHouseEmployeeDemoGraphics
```

100 % ▼ ◀

⊞ Results 📋 Messages

	EmployeeId	FirstName	LastName	Age	Gender
1	NULL	Gulson	Jha	17	Male
2	NULL	Shrijana	Shrestha	32	Female
3	101	Ram	Koirala	22	Male
4	102	Sita	Baral	34	Female
5	103	Hari	Shah	33	Male
6	104	Ramesh	Parajuli	23	Male
7	105	Shyam	Rai	34	Male
8	106	Padam	Pradhan	63	Male
9	107	Bikram	Thapa	33	Female
10	108	Rohit	Paudel	19	Male
11	111	Kedar	Rokaya	NULL	NULL
12	112	Rajan	BK	29	Male
13	112	Ranjana	Giti	45	Female
14	123	Sandeep	Lamsal	26	Male
15	124	Sanjeeta	Sodari	28	Female
16	125	Ganga	Tamang	21	Female

```sql
SELECT *
FROM SQLProject.dbo.EmployeeDemoGraphics
Full Outer Join SQLProject.dbo.WareHouseEmployeeDemoGraphics
    ON EmployeeDemoGraphics.EmployeeId = WareHouseEmployeeDemoGraphics.EmployeeID

SELECT *
FROM SQLProject.dbo.EmployeeDemoGraphics
UNION ALL
SELECT *
FROM SQLProject.dbo.WareHouseEmployeeDemoGraphics
```

100 % ▾ ◂

⊞ Results   🗒 Messages

	EmployeeId	First Name	Last Name	Age	Gender
1	101	Ram	Koirala	22	Male
2	102	Sita	Baral	34	Female
3	103	Hari	Shah	33	Male
4	104	Ramesh	Parajuli	23	Male
5	105	Shyam	Rai	34	Male
6	106	Padam	Pradhan	63	Male
7	107	Bikram	Thapa	33	Female
8	108	Rohit	Paudel	19	Male
9	NULL	Gulson	Jha	17	Male
10	NULL	Shrijana	Shrestha	32	Female
11	111	Kedar	Rokaya	NULL	NULL
12	112	Ranjana	Giti	45	Female
13	112	Rajan	BK	29	Male
14	123	Sandeep	Lamsal	26	Male
15	124	Sanjeeta	Sodari	28	Female
16	125	Ganga	Tamang	21	Female

✔ Query executed successfully