INNER JOIN

BASES DE DATOS I

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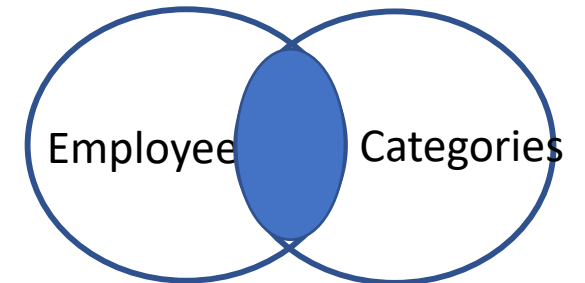# INNER JOIN

Employee

IdCustomer	First_Name	Last_Name	IdCategory
1	Oscar	Ramirez	1
2	Pedro	Morales	1
3	María	Gutierrez	2
4	Amanda	Zuniga	3

Categories

IDCategory	NombreCategory	Amount
1	Secretaria	8000.00
2	Afanadora	5000.00
3	Director	20000.00

```
SELECT *
FROM Employee INNER JOIN Categories
ON Employee.IdCategory = Categories.IDCategory
```

Employee   Categories

	First_Name	Last_Name	IdCategory	IDCategory	NombreCategory	Amount
1	Oscar	Ramirez	1	1	Secretaria(o)	8000.00
2	Pedro	Morales	1	1	Secretaria(o)	8000.00
3	María	Gutierrez	2	2	Afanadora	5000.00
4	Amanda	Zuniga	3	3	Director	20000.00

INNER JOIN

Employee

IdCustomer	First_Name	Last_Name	IdCategory
1	Oscar	Ramirez	1
2	Pedro	Morales	1
3	María	Gutierrez	2
4	Amanda	Zuniga	3

Categories

IDCategory	NombreCategory	Amount
1	Secretaria	8000.00
2	Afanadora	5000.00
3	Director	20000.00

```
SELECT A.First_Name, B.NombreCategory
FROM Employee as A INNER JOIN Categories as B
ON A.IdCategory = B.IDCategory
```
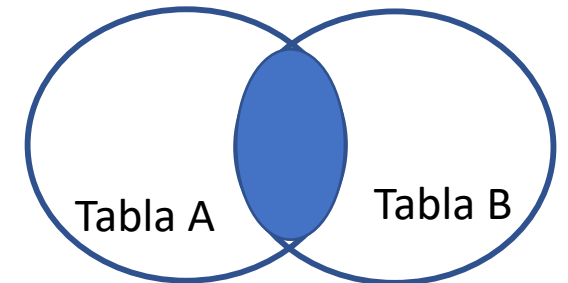
	First_Name	NombreCategory
1	Oscar	Secretaria(o)
2	Pedro	Secretaria(o)
3	María	Afanadora
4	Amanda	Director

Tabla A   Tabla B

LEFT JOIN

Categories

IDCategory	NombreCategory	Amount
1	Secretaria	8000.00
2	Afanadora	5000.00
3	Director	20000.00

Employee

IdCustomer	First_Name	Last_Name	IdCategory
1	Oscar	Ramirez	1
2	Pedro	Morales	1
3	María	Gutierrez	2

```
SELECT *
FROM Categories LEFT JOIN Employee
ON Categories.IDCategory = Employee.IdCategory
```

Categories   Employee
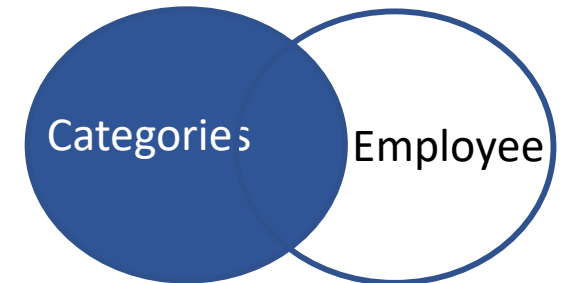
	IDCategory	NombreCategory	Amount	First_Name	Last_Name	IdCategory
1	1	Secretaria(o)	8000.00	Oscar	Ramirez	1
2	1	Secretaria(o)	8000.00	Pedro	Morales	1
3	2	Afanadora	5000.00	María	Gutierrez	2
4	3	Director	20000.00	NULL	NULL	NULL

RIGHT JOIN

Employee

IdCustomer	First_Name	Last_Name	IdCategory
1	Oscar	Ramirez	1
2	Pedro	Morales	1
3	Maria	Gutierrez	2

Categories

IDCategory	NombreCategory	Amount
1	Secretaria	8000.00
2	Afanadora	5000.00
3	Director	20000.00

```
SELECT *
FROM Employee RIGHT JOIN Categories
ON Employee.IdCategory = Categories.IDCategory
```

Employee — Categories
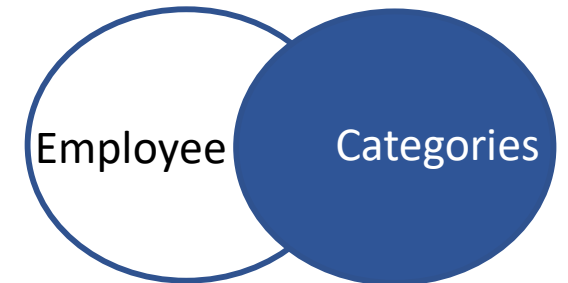
	First_Name	Last_Name	IdCategory	IDCategory	NombreCategory	Amount
1	Oscar	Ramirez	1	1	Secretaria(o)	8000.00
2	Pedro	Morales	1	1	Secretaria(o)	8000.00
3	María	Gutierrez	2	2	Afanadora	5000.00
4	NULL	NULL	NULL	3	Director	20000.00

RIGHT JOIN

Employee

IdCustomer	First_Name	Last_Name	IdCategory
1	Oscar	Ramirez	1
2	Pedro	Morales	1
3	Maria	Gutierrez	2

Categories

IDCategory	NombreCategory	Amount
1	Secretaria	8000.00
2	Afanadora	5000.00
3	Director	20000.00

```
SELECT *
FROM Employee RIGHT JOIN Categories
ON Employee.IdCategory = Categories.IDCategory
WHERE Employee.IdCategory IS NULL
```

Employee   Categories
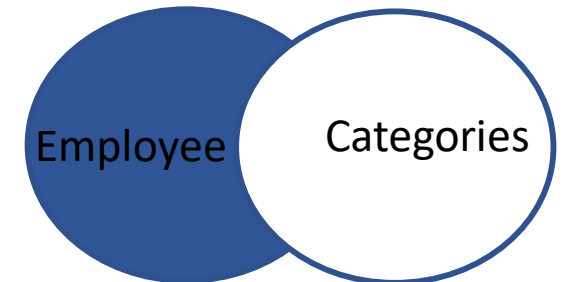
	First_Name	Last_Name	IdCategory	IDCategory	NombreCategory	Amount
1	NULL	NULL	NULL	3	Director	20000.00

RIGHT JOIN

Employee

IdCustomer	First_Name	Last_Name	IdCategory
1	Oscar	Ramirez	1
2	Pedro	Morales	1
3	Maria	Gutierrez	2

Categories

IDCategory	NombreCategory	Amount
1	Secretaria	8000.00
2	Afanadora	5000.00
3	Director	20000.00

SELECT *
FROM Employee CROSS JOIN Categories

	First_Name	Last_Name	IdCategory	IDCategory	NombreCategory	Amount
1	Oscar	Ramirez	1	1	Secretaria(o)	8000.00
2	Pedro	Morales	1	1	Secretaria(o)	8000.00
3	María	Gutierrez	2	1	Secretaria(o)	8000.00
4	Oscar	Ramirez	1	2	Afanadora	5000.00
5	Pedro	Morales	1	2	Afanadora	5000.00
6	María	Gutierrez	2	2	Afanadora	5000.00
7	Oscar	Ramirez	1	3	Director	20000.00
8	Pedro	Morales	1	3	Director	20000.00
9	María	Gutierrez	2	3	Director	20000.00

Employee   Categories
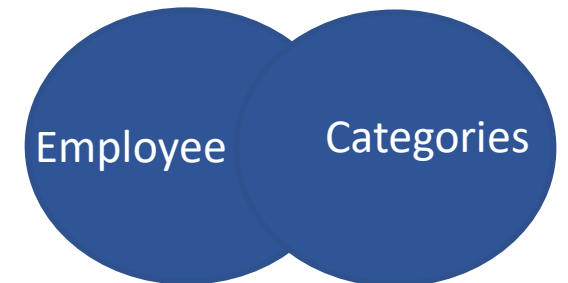
Joins del SQL

Select (campos)
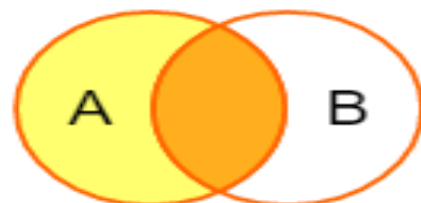From   A Inner Join B
       On A.Clave = B.Clave

Select (campos)
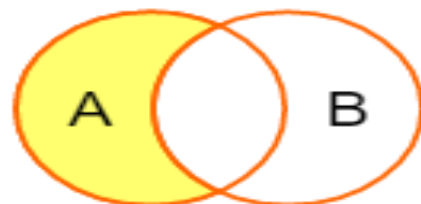From   A Cross Join B

Select (campos)
From   A Left Join B
       On A.Clave = B.Clave

Select (campos)
From   A Right Join B
       On A.Clave = B.Clave

Select (campos)
From   A Left Join B
       On A.Clave = B.Clave
Where B.Clave is Null

Select (campos)
From   A Right Join B
       On A.Clave = B.Clave
Where A.Clave is Null

Select (campos)
From   A Full Outer Join B
       On A.Clave = B.Clave

Select (campos)
From   A Full Outer Join B
       On A.Clave = B.Clave
Where (A.Clave is Null) Or (B.Clave is Null)