

Join

- 1) Inner join
- 2) Left Join
- 3) Right Join
- 4) Cross Join
- 5) Straight Join
- 6) Natural Join
- 7) Left Outer Join
- 8) Right Outer Join
- 9) Full /cross Outer Join

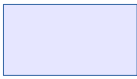
Inner Join

table _A

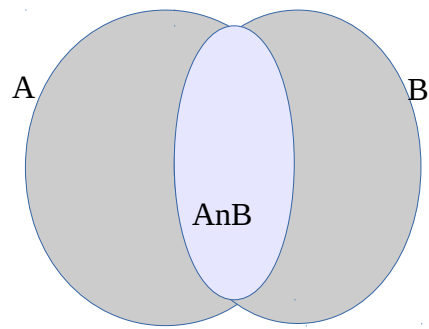
A	M
1	m
2	n
4	o

table _B

A	N
2	p
3	q
5	r



OUTPUT SHAPE COLOR



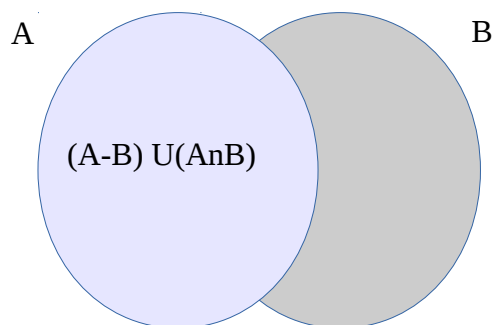
SQL :

```
SELECT * FROM table_A  
INNER JOIN table_B  
ON table_A.A=table_B.A;
```

output :

A	M	A	N
2	n	2	p

Left Join



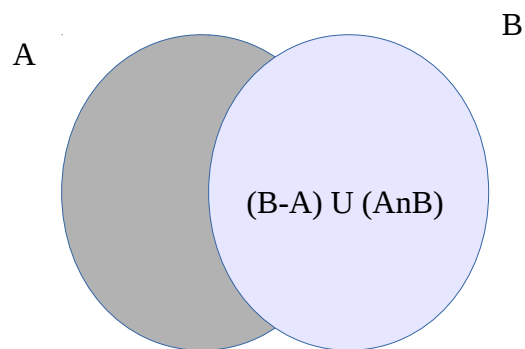
Code :

```
SELECT * FROM table_A
LEFT JOIN table_B
ON table_A.A=table_B.A;
```

output :

A	M	A	N
1	m	2	p
2	n	null	null
4	o	null	null

Right Join



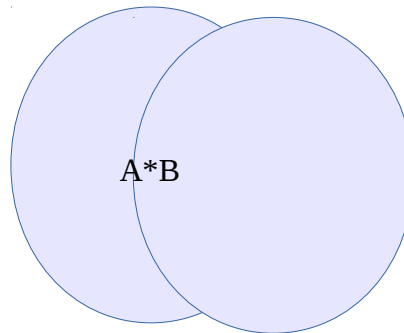
Code :

```
SELECT * FROM table_A
RIGHT JOIN table_B
ON table_A.A=table_B.A;
```

output :

A	M	A	N
2	n	2	p
null	null	3	q
null	null	5	r

Cross Join



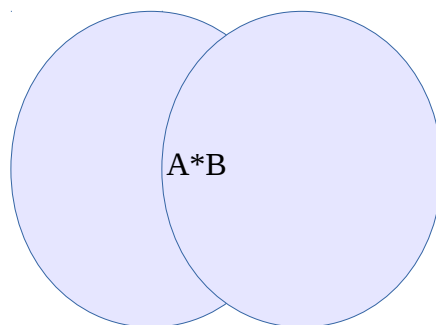
Code :

```
SELECT * FROM table_A  
CROSS JOIN table_B;
```

output :

A	M	A	N
1	m	2	p
2	n	2	p
4	o	2	p
1	m	3	q
2	n	3	q
4	o	3	q
1	m	5	r
2	n	5	r
4	o	5	r

Straight Join



Code :

```
SELECT * FROM table_A  
STRAIGHT JOIN table_B;
```

output :

A	M	A	N
1	m	2	p

2	n	2	p
4	o	2	p
1	m	3	q
2	n	3	q
4	o	3	q
1	m	5	r
2	n	5	r
4	o	5	r

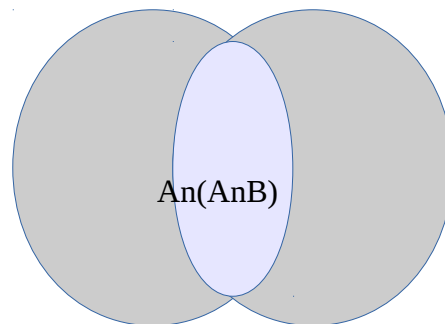
Natural Join

Code :

SELECT * FROM table_A

NATURAL JOIN table_B;

output :



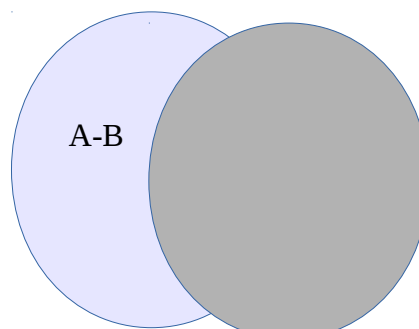
A	M	N
2	n	p

Note : Natural join is like INNER or LEFT join .

Left Outer Join

Code :

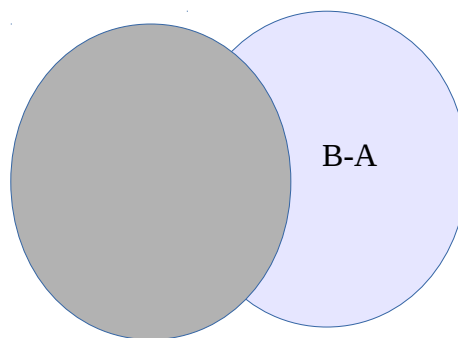
SELECT * FROM table_A LEFT JOIN table_B ON table_A.A=table_B.A
where table_B.A IS NULL ;



output :

A	M	A	N
1	m	null	null
4	o	null	null

Right Outer Join



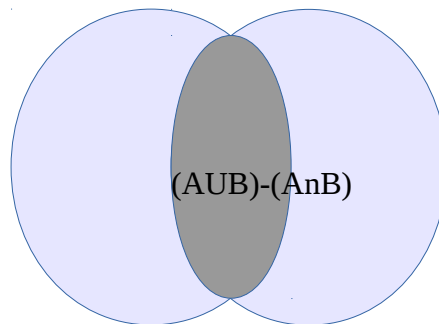
Code :

```
SELECT * FROM table_A LEFT JOIN table_B ON table_A.A=table_B.A  
where table_B.A IS NULL ;
```

output :

A	M	A	N
null	null	3	q
null	null	5	r

Full /Cross Outer Join



Code :

```
SELECT * FROM table_A cross JOIN table_B ON table_A.A=table_B.A  
where table_B.A IS NULL or table_A.A IS NULL ;
```

output : EMPTY SET IN THIS TABLE .

Not : mariaDB support cross not full keyword

Source : <https://www.w3resource.com/mysql/advance-query-in-mysql/mysql-joins.php>

Tested By :Noor , 07-02-2018

ON :mariaDB

Server version: 10.0.33-MariaDB-0ubuntu0.16.04.1 Ubuntu 16.04