Asignatura: Bases de datos
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Tarea: 7_1

R1

A	X	B	Y
7	2	6	11
3	4	9	15
10	7	2	4
1	12	2	11

R2

B	W	D	Y	A	Z
2	5	6	11	1	30
4	7	8	4	7	8
9	10	11	28	5	12

```
DBlbd06_2024-1_318118484=> SELECT * FROM R1;
 id | a  | x  | b | y
----+----+----+---+----
  1 |  7 |  2 | 6 | 11
  2 |  3 |  4 | 9 | 15
  3 | 10 |  7 | 2 |  4
  4 |  1 | 12 | 2 | 11
(4 rows)

DBlbd06_2024-1_318118484=> SELECT * FROM R2;
 id | b | w  | d  | y  | a | z
----+---+----+----+----+---+----
  1 | 2 |  5 |  6 | 11 | 1 | 30
  2 | 4 |  7 |  8 |  4 | 7 |  8
  3 | 9 | 10 | 11 | 28 | 5 | 12
(3 rows)
```

R1 X R2

R1 X R2

A	X	B	Y	B	W	D	Y	A	Z
7	2	6	11	2	5	6	11	1	30
7	2	6	11	4	7	8	4	7	8
7	2	6	11	9	10	11	28	5	12
3	4	9	15	2	5	6	11	1	30
3	4	9	15	4	7	8	4	7	8
3	4	9	15	9	10	11	28	5	12
10	7	2	4	2	5	6	11	1	30
10	7	2	4	4	7	8	4	7	8
10	7	2	4	9	10	11	28	5	12
1	12	2	11	2	5	6	11	1	30
1	12	2	11	4	7	8	4	7	8
1	12	2	11	9	10	11	28	5	12

```
| a  | x  | b | y  | id | b | w  | d  | y  | a | z
+----+----+---+----+----+---+----+----+----+---+----
|  7 |  2 | 6 | 11 |  1 | 2 |  5 |  6 | 11 | 1 | 30
|  7 |  2 | 6 | 11 |  2 | 4 |  7 |  8 |  4 | 7 |  8
|  7 |  2 | 6 | 11 |  3 | 9 | 10 | 11 | 28 | 5 | 12
|  3 |  4 | 9 | 15 |  1 | 2 |  5 |  6 | 11 | 1 | 30
|  3 |  4 | 9 | 15 |  2 | 4 |  7 |  8 |  4 | 7 |  8
|  3 |  4 | 9 | 15 |  3 | 9 | 10 | 11 | 28 | 5 | 12
| 10 |  7 | 2 |  4 |  1 | 2 |  5 |  6 | 11 | 1 | 30
| 10 |  7 | 2 |  4 |  2 | 4 |  7 |  8 |  4 | 7 |  8
| 10 |  7 | 2 |  4 |  3 | 9 | 10 | 11 | 28 | 5 | 12
|  1 | 12 | 2 | 11 |  1 | 2 |  5 |  6 | 11 | 1 | 30
|  1 | 12 | 2 | 11 |  2 | 4 |  7 |  8 |  4 | 7 |  8
|  1 | 12 | 2 | 11 |  3 | 9 | 10 | 11 | 28 | 5 | 12
```

$R1 \bowtie R2$

A	X	B	Y	B	W	D	Y	A	Z
1	12	2	11	2	5	6	11	1	30

```
 a | b | y  | idr1 | x  | idr2 | w | d | z
---+---+----+------+----+------+---+---+----
 1 | 2 | 11 |    4 | 12 |    1 | 5 | 6 | 30
(1 row)
```

$R1 \bowtie_{((R1.A > R2.Z \text{ or } R1.A >= R2.W) \text{ and } R1.Y = R2.Y)} R2$

R1.A	X	R1.B	R1.Y	R2.B	W	D	R2.Y	R2.A	Z
7	2	6	11	2	5	6	11	1	30
10	7	2	4	4	7	8	4	7	8

```
 id | a  | x | b | y  | id | b | w | d | y  | a | z
----+----+---+---+----+----+---+---+---+----+---+----
  3 | 10 | 7 | 2 |  4 |  2 | 4 | 7 | 8 |  4 | 7 |  8
  1 |  7 | 2 | 6 | 11 |  1 | 2 | 5 | 6 | 11 | 1 | 30
(2 rows)
```