TAREA 13

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

Tabla que incluya:

- *atributos*
- *registros*

$$R1XR2$$

$$R2 \bowtie R1$$

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

CREACIÓN DE TABLAS / ATRIBUTOS Y REGISTROS

```
-- 1. Cree la base de datos lab_24_2_8900054
CREATE DATABASE TAREA13;
GO

-- 2. Abra la base de datos
USE TAREA13;
GO

-- 3. Creacion de las tablas
CREATE TABLE R1 (
    A INT,
    X INT,
    B INT,
    Y INT
);

CREATE TABLE R2 (
    B INT,
    W INT,
    D INT,
    Y INT,
    A INT,
    Z INT
);

-- 4. Llenado de tablas
INSERT INTO R1 (A, X, B, Y) VALUES
(7, 2, 6, 11),
(3, 4, 9, 15),
(10, 7, 2, 4),
(1, 12, 2, 11);

INSERT INTO R2 (B, W, D, Y, A, Z) VALUES
(2, 5, 6, 11, 1, 30),
(4, 7, 8, 4, 7, 8),
(9, 10, 11, 28, 5, 12);

SELECT * FROM R1;
SELECT * FROM R1;
```

EJERCICIO 1

$$R1XR2$$

```sql
-- 5. Producto cartesiano

SELECT * FROM R1 CROSS JOIN R2;
```

100 %

Results | Messages

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

EJERCICIO 2

$$R2 \bowtie R1$$

```sql
SELECT *
FROM R2
NATURAL JOIN R1;
```

1 row

b	y	a	w	d	z	x
2	11	1	5	6	30	12

EJERCICIO 3 (JOIN CONDCIONAL)

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

```
36 SELECT *
37 FROM R1
38 JOIN R2
39 ON R1.Y = R2.Y
40 WHERE (R1.A > R2.Z OR R1.A >= R2.W);
41
```

2 rows

a	x	b	y	b	w	d	y	a	z
7	7	4	4	4	7	8	4	7	8
1	2	2	11	2	5	6	11	1	30