Obtenga las personas (todos sus datos personales) que practican todos los deportes.

```
SELECT * FROM pers
WHERE NOT EXISTS(
                             Acá va el
                                       Selector de
SELECT * FROM depo
                             divisor
                                       fracasos!!!
WHERE NOT EXISTS(
SELECT * FROM prac WHERE prac.codd = depo.codd AND
prac.dni = pers.dni
                             Acá va el
```

| [PK] integer character varying (30) chara | aracter varying (20) integer | character varying (30) | integer | character varying (30) |
|---|------------------------------|------------------------|---------|------------------------|
| 1 40222333 María Castro F                 | 28                           | Salta 560(N)           | 4305060 | Capital                |
| 2 18498425 Ana García F                   | 54                           | Salta 560(N)           | 4335566 | Capital                |

## Depo

| 4 | codd<br>[PK] character varying (10) | nomd character varying (30) | clase character varying (30) |
|---|-------------------------------------|-----------------------------|------------------------------|
| 1 | D01                                 | Fútbol                      | Balón                        |
| 2 | D04                                 | Tenis                       | Balón                        |
| 3 | D06                                 | Kitesurf                    | Agua                         |
|   |                                     |                             |                              |

| 4 | dni<br>[PK] integer | codd<br>[PK] character varying (10) | codc<br>[PK] integer |
|---|---------------------|-------------------------------------|----------------------|
| 1 | 40222333            | D01                                 | 100                  |
| 2 | 40222333            | D04                                 | 200                  |
| 3 | 40222333            | D06                                 | 300                  |

| 4 | dni<br>[PK] integer | nom character varying (30) | sexo character varying (20) | edad<br>integer | dir<br>character varying (30) | tel<br>integer | zona<br>character varying (30) | • |
|---|---------------------|----------------------------|-----------------------------|-----------------|-------------------------------|----------------|--------------------------------|---|
| 1 | 40222333            | María Castro               | F                           | 28              | Salta 560(N)                  | 4305060        | Capital                        |   |
| 2 | 18498425            | Ana García                 | F                           | 54              | Salta 560(N)                  | 4335566        | Capital                        |   |
|   |                     |                            |                             |                 |                               |                |                                |   |

## Depo

| 4 | codd<br>[PK] character varying (10) | nomd character varying (30) | clase character varying (30) |
|---|-------------------------------------|-----------------------------|------------------------------|
| 1 | D01                                 | Fútbol                      | Balón                        |
| 2 | D04                                 | Tenis                       | Balón                        |
| 3 | D06                                 | Kitesurf                    | Agua                         |

| 4 | dni<br>[PK] integer | codd<br>[PK] character varying (10) | codc<br>[PK] integer |
|---|---------------------|-------------------------------------|----------------------|
| 1 | 40222333            | D01                                 | 100                  |
| 2 | 40222333            | D04                                 | 200                  |
| 3 | 40222333            | D06                                 | 300                  |

```
SELECT * FROM pers
WHERE NOT EXISTS(
SELECT * FROM depo
WHERE NOT EXISTS(
SELECT * FROM pra
```

De momento para la persona dni 4022233 no encuentra un deporte que no practique

SELECT \* FROM prac WHERE prac.codd = depo.codd AND

prac.dni = pers.dni

La subconsulta devuelve tupla → not exists falso

| Dni      | Codd | Codc |
|----------|------|------|
| 40222333 | D01  | 100  |

| _ <b>⊿</b>   l' | <b>dni</b><br>[PK] integer | nom<br>character varying (30) | character varying (20) | edad<br>integer | character varying (30) | integer 🧳 | zona<br>character varying (30) | 4 |
|-----------------|----------------------------|-------------------------------|------------------------|-----------------|------------------------|-----------|--------------------------------|---|
| 1               | 40222333                   | María Castro                  | F                      | 28              | Salta 560(N)           | 4305060   | Capital                        |   |
| 2               | 18498425                   | Ana García                    | F                      | 54              | Salta 560(N)           | 4335566   | Capital                        |   |

# Depo

| 4 | codd<br>[PK] character varying (10) | nomd character varying (30) | clase character varying (30) |
|---|-------------------------------------|-----------------------------|------------------------------|
| 1 | D01                                 | Fútbol                      | Balón                        |
| 2 | D04                                 | Tenis                       | Balón                        |
| 3 | D06                                 | Kitesurf                    | Agua                         |

| 4 | dni<br>[PK] integer | codd<br>[PK] character varying (10) | codc<br>[PK] integer |
|---|---------------------|-------------------------------------|----------------------|
| 1 | 40222333            | D01                                 | 100                  |
| 2 | 40222333            | D04                                 | 200                  |
| 3 | 40222333            | D06                                 | 300                  |

```
SELECT * FROM pers
WHERE NOT EXISTS(
SELECT * FROM depo
WHERE NOT EXISTS(
SELECT * FROM pra
```

De momento para la persona dni 4022233 no encuentra un deporte que no practique

SELECT \* FROM prac WHERE prac.codd = depo.codd AND

prac.dni = pers.dni

La subconsulta devuelve tupla → not exists falso

| Dni      | Codd | Codc |
|----------|------|------|
| 40222333 | D04  | 200  |

| 4 | dni<br>[PK] integer | nom character varying (30) | sexo character varying (20) | edad<br>integer | dir<br>character varying (30) | tel<br>integer | zona<br>character varying (30) | • |
|---|---------------------|----------------------------|-----------------------------|-----------------|-------------------------------|----------------|--------------------------------|---|
| 1 | 40222333            | María Castro               | F                           | 28              | Salta 560(N)                  | 4305060        | Capital                        |   |
| 2 | 18498425            | Ana García                 | F                           | 54              | Salta 560(N)                  | 4335566        | Capital                        |   |
|   |                     |                            |                             |                 |                               |                |                                |   |

# Depo

| 4 | codd<br>[PK] character varying (10) | nomd character varying (30) | clase character varying (30) |
|---|-------------------------------------|-----------------------------|------------------------------|
| 1 | D01                                 | Fútbol                      | Balón                        |
| 2 | D04                                 | Tenis                       | Balón                        |
| 3 | D06                                 | Kitesurf                    | Agua                         |

| 4 | dni<br>[PK] integer | codd<br>[PK] character varying (10) | codc<br>[PK] integer |
|---|---------------------|-------------------------------------|----------------------|
| 1 | 40222333            | D01                                 | 100                  |
| 2 | 40222333            | D04                                 | 200                  |
| 3 | 40222333            | D06                                 | 300                  |

```
SELECT * FROM pers
WHERE NOT EXISTS(
SELECT * FROM depo
WHERE NOT EXISTS(
SELECT * FROM pra
```

Para la persona dni 4022233 no encuentra un deporte que no practique

SELECT \* FROM prac WHERE prac.codd = depo.codd AND

prac.dni = pers.dni

La subconsulta devuelve tupla → not exists falso

| Dni      | Codd | Codc |
|----------|------|------|
| 40222333 | D06  | 300  |

```
La persona dni 4022233 practica todos los deportes
SELECT * FROM pers
WHERE NOT EXISTS( La subconsulta no devuelve tupla → not exists verdadero
SELECT * FROM depo
                                 Para la persona dni 4022233 no encuentra un
                                 deporte que no practique
WHERE NOT EXISTS(
             FROM prac WHERE prac.codd = depo.codd AND
prac.dni = pers.dni
                        La subconsulta devuelve tupla \rightarrow not exists falso
              40222333 María Castro
                                                        28 | Salta 560(N)
                                                                           4305060 | Capital
```

|   | dni<br>[PK] integer | nom character varying (30) | sexo character varying (20) | edad<br>integer | dir<br>character varying (30) | tel<br>integer | zona<br>character varying (30) |
|---|---------------------|----------------------------|-----------------------------|-----------------|-------------------------------|----------------|--------------------------------|
| 1 | 40222333            | María Castro               | F                           | 28              | Salta 560(N)                  | 4305060        | Capital                        |
| 2 | 18498425            | Ana García                 | F                           | 54              | Salta 560(N)                  | 4335566        | Capital                        |

## Depo

| 4 | codd<br>[PK] character varying (10) | nomd character varying (30) | clase character varying (30) |
|---|-------------------------------------|-----------------------------|------------------------------|
| 1 | D01                                 | Fútbol                      | Balón                        |
| 2 | D04                                 | Tenis                       | Balón                        |
| 3 | D06                                 | Kitesurf                    | Agua                         |
|   |                                     |                             |                              |

| 4 | dni<br>[PK] integer | codd<br>[PK] character varying (10) | codc<br>[PK] integer |
|---|---------------------|-------------------------------------|----------------------|
| 1 | 40222333            | D01                                 | 100                  |
| 2 | 40222333            | D04                                 | 200                  |
| 3 | 40222333            | D06                                 | 300                  |

```
SELECT * FROM pers
WHERE NOT EXISTS(
SELECT * FROM depo
                               De momento para la persona dni 18498425 ha
                               encontrado un deporte que no practica
WHERE NOT EXISTS(
SELECT * FROM prac WHERE prac.codd = depo.codd AND
prac.dni = pers.dni La subconsulta no devuelve tupla → not exists
                        verdadero
                     codd
                                            nomd
                                                                 clase
                     [PK] character varying (10)
                                            character varying (30)
                                                                 character varying (30)
                    D01
                                            Fútbol
                                                                 Balón
```

| 1 40222333 María Castro F 28 Salta 560(N) 4305060 Capital | arying (30) | character varying (30) | <i>A</i> | ø | character varying (30) | ø  | <b>edad</b><br>integer | ø | sexo<br>character varying (20) | ø | nom<br>character varying (30) | <b>A</b> | dni<br>[PK] integer | 4 |
|---|-------------|------------------------|----------|---|------------------------|----|------------------------|---|--------------------------------|---|-------------------------------|----------|---------------------|---|
|   |             | Capital                | 4305060  |   | Salta 560(N)           | 28 |                        |   | F                              |   | María Castro                  | 333      | 4022233             | 1 |
| 2 18498425 Ana García F 54 Salta 560(N) 4335566 Capital   |             | Capital                | 4335566  |   | Salta 560(N)           | 54 |                        |   | F                              |   | Ana García                    | 125      | 1849842             | 2 |

# Depo

| 4 | codd<br>[PK] character varying (10) | nomd character varying (30) | clase character varying (30) |
|---|-------------------------------------|-----------------------------|------------------------------|
| 1 | D01                                 | Fútbol                      | Balón                        |
| 2 | D04                                 | Tenis                       | Balón                        |
| 3 | D06                                 | Kitesurf                    | Agua                         |

| 4 | dni<br>[PK] integer | codd<br>[PK] character varying (10) | codc<br>[PK] integer |
|---|---------------------|-------------------------------------|----------------------|
| 1 | 40222333            | D01                                 | 100                  |
| 2 | 40222333            | D04                                 | 200                  |
| 3 | 40222333            | D06                                 | 300                  |

```
SELECT * FROM pers
WHERE NOT EXISTS(
SELECT * FROM depo
                               De momento para la persona dni 18498425 ha
                               encontrado un deporte que no practica
WHERE NOT EXISTS(
SELECT * FROM prac WHERE prac.codd = depo.codd AND
prac.dni = pers.dni La subconsulta no devuelve tupla → not exists
                        verdadero
                     codd
                                             nomd
                                                                  clase
                     [PK] character varying (10)
                                             character varying (30)
                                                                  character varying (30)
                                             Fútbol
                                                                  Balón
                     D01
                                                                  Balón
                     D04
                                             Tenis
```

|   | dni<br>[PK] integer | nom character varying (30) | sexo character varying (20) | edad<br>integer | dir<br>character varying (30) | tel<br>integer | zona<br>character varying (30) |  |
|---|---------------------|----------------------------|-----------------------------|-----------------|-------------------------------|----------------|--------------------------------|--|
| 1 | 40222333            | María Castro               | F                           | 28              | Salta 560(N)                  | 4305060        | Capital                        |  |
| 2 | 18498425            | Ana García                 | F                           | 54              | Salta 560(N)                  | 4335566        | Capital                        |  |

# Depo

| 4 | codd<br>[PK] character varying (10) | nomd<br>character varying (30) | clase character varying (30) |
|---|-------------------------------------|--------------------------------|------------------------------|
| 1 | D01                                 | Fútbol                         | Balón                        |
| 2 | D04                                 | Tenis                          | Balón                        |
| 3 | D06                                 | Kitesurf                       | Agua                         |

| 4 | dni<br>[PK] integer | codd<br>[PK] character varying (10) | codc<br>[PK] integer |
|---|---------------------|-------------------------------------|----------------------|
| 1 | 40222333            | D01                                 | 100                  |
| 2 | 40222333            | D04                                 | 200                  |
| 3 | 40222333            | D06                                 | 300                  |

La persona dni 18498425 no practica todos los deportes

SELECT \* FROM pers
WHERE NOT EXISTS(

WHERE NOT EXISTS ( La subconsulta devuelve 3 tuplas → not exists falso

SELECT \* FROM depo

De momento para la persona dni 18498425 ha encontrado tres deporte que no practica

WHERE NOT EXISTS(

SELECT \* FROM prac WHERE prac.codd = depo.codd AND

**prac.dni = pers.dni** La subconsulta no devuelve tupla → not exists verdadero

| 4 | codd<br>[PK] character varying (10) | nomd<br>character varying (30) | clase<br>character varying (30) |
|---|-------------------------------------|--------------------------------|---------------------------------|
| 1 | D01                                 | Fútbol                         | Balón                           |
| 2 | D04                                 | Tenis                          | Balón                           |
| 3 | D06                                 | Kitesurf                       | Agua                            |

```
SELECT * FROM pers
WHERE NOT EXISTS(
SELECT * FROM depo
WHERE NOT EXISTS(
SELECT * FROM prac WHERE prac.codd = depo.codd AND
prac.dni = pers.dni
                    character varying (30)
                                   character varying (20)
                                                          character varying (30)
                                                                                character varying (30)
              40222333 María Castro
                                                       28 Salta 560(N)
                                                                           4305060 Capital
```