

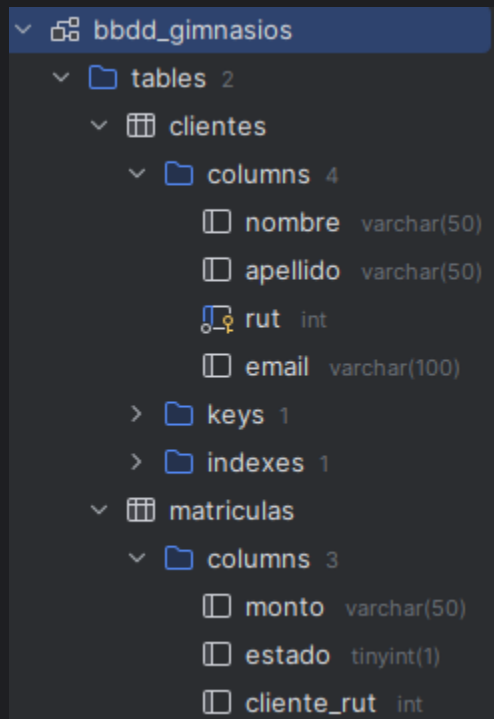
```
-- PASO 1
CREATE DATABASE bbdd_gimnasios;

-- PASO 2
USE bbdd_gimnasios;

-- PASO 3
CREATE TABLE clientes(
    nombre VARCHAR(50),
    apellido VARCHAR(50),
    rut INT NOT NULL,
    email VARCHAR(100)
);

-- PASO 4
ALTER TABLE clientes ADD PRIMARY KEY (rut);

-- PASO 5
CREATE TABLE matriculas(
    monto VARCHAR(50),
    estado BOOLEAN,
    cliente_rut INT references clientes(rut)
);
```



```
-- PASO 6
INSERT INTO clientes(nombre, apellido, rut, email) VALUES
  ('Cliente 1', 'Apellido cliente 1', '999999999',
'cliente1@email.com'),
  ('Cliente 2', 'Apellido cliente 2', '888888888',
'cliente2@email.com'),
  ('Cliente 3', 'Apellido cliente 3', '777777777',
'cliente3@email.com'),
  ('Cliente 4', 'Apellido cliente 4', '666666666',
'cliente4@email.com'),
  ('Cliente 5', 'Apellido cliente 5', '555555555',
'cliente5@email.com');
```

```
-- PASO 7
INSERT INTO matriculas(monto, estado, cliente_rut) VALUES
  ('40000', TRUE, '999999999'),
  ('40000', FALSE, '888888888'),
  ('55000', TRUE, '555555555'),
  ('35000', TRUE, '777777777'),
  ('60000', FALSE, '666666666');
```

```
-- PASO 8
SELECT email, rut, monto, estado
FROM clientes
INNER JOIN matriculas
ON clientes.rut = cliente_rut;
```

	email	rut	monto	estado
1	cliente1@email.com	999999999	40000	1
2	cliente2@email.com	888888888	40000	0
3	cliente5@email.com	555555555	55000	1
4	cliente3@email.com	777777777	35000	1
5	cliente4@email.com	666666666	60000	0

```
-- PASO 9
SELECT email, rut, monto, estado
FROM clientes
INNER JOIN matriculas
ON clientes.rut = cliente_rut
ORDER BY monto;
```

	email	rut	monto	estado
1	cliente3@email.com	777777777	35000	1
2	cliente1@email.com	999999999	40000	1
3	cliente2@email.com	888888888	40000	0
4	cliente5@email.com	555555555	55000	1
5	cliente4@email.com	666666666	60000	0

```
-- PASO 10
SELECT monto, COUNT(monto)
  FROM matriculas
 GROUP BY monto
 HAVING COUNT(monto) >= 2;
```

	monto	COUNT(monto)
1	40000	2

```
-- PASO 11
INSERT INTO matriculas VALUES
  ('35000', TRUE, '77777777');
```

```
SELECT email, rut, SUM(monto) as montoTotal, estado,
COUNT(matriculas.cliente_rut) as CantidadDeMatriculas
  FROM clientes
 INNER JOIN matriculas ON clientes.rut = matriculas.cliente_rut
 GROUP BY email, rut, monto, estado;
```

	email	rut	montoTotal	estado	CantidadDeMatriculas
1	cliente1@email.com	999999999	40000	1	1
2	cliente2@email.com	888888888	40000	0	1
3	cliente5@email.com	555555555	55000	1	1
4	cliente3@email.com	777777777	70000	1	2
5	cliente4@email.com	666666666	60000	0	1

```
-- PASO 12
SELECT email, rut, SUM(monto) as montoTotal, estado,
COUNT(matriculas.cliente_rut) as CantidadDeMatriculas
  FROM clientes
 INNER JOIN matriculas ON clientes.rut = cliente_rut
 GROUP BY email, rut, monto, estado
 HAVING COUNT(matriculas.cliente_rut) >=2;
```

	email	rut	montoTotal	estado	CantidadDeMatriculas
1	cliente3@email.com	777777777	70000	1	2

```
-- MANOS A LA OBRA
```

```
-- BORRAR DATOS DE TABLAS PREVIAS
DELETE FROM clientes WHERE rut IN('999999999', '888888888', '777777777',
'666666666', '555555555');
DELETE FROM matriculas WHERE matriculas.cliente_rut IN('999999999',
'888888888', '777777777', '666666666', '555555555');
```

```
-- BORRAR PRIMARY KEY(rut) DE CLIENTES
ALTER TABLE clientes DROP PRIMARY KEY;
-- BORRAR cliente_rut DE MATRICULAS
ALTER TABLE matriculas DROP COLUMN cliente_rut;
```

```
-- CREAR COLUMNA id PARA clientes
ALTER TABLE clientes ADD COLUMN id INT AUTO_INCREMENT PRIMARY KEY FIRST;
-- CREAR COLUMNA cliente_id PARA MATRICULAS
```

```
ALTER TABLE matriculas ADD COLUMN cliente_id INT REFERENCES clientes(id);
```

```
-- INSERTAR CLIENTES
```

```
INSERT INTO clientes(nombre, apellido, rut, email) VALUES  
  ('Cliente 1', 'Apellido cliente 1', '999999999',  
  'cliente1@email.com'),  
  ('Cliente 2', 'Apellido cliente 2', '888888888',  
  'cliente2@email.com');
```

```
-- INSERTAR MATRICULAS
```

```
INSERT INTO matriculas(monto, estado, cliente_id) VALUES  
  ('40000', TRUE, '1'),  
  ('40000', FALSE, '2'),  
  ('55000', TRUE, '1'),  
  ('35000', TRUE, '1');
```

```
-- PASO 12 NUEVAMENTE
```

```
SELECT id, nombre, apellido, rut, email, COUNT(matriculas.cliente_id) AS  
CantidadDeMatriculas  
  FROM clientes  
  INNER JOIN matriculas ON clientes.id = matriculas.cliente_id  
  GROUP BY id, nombre, apellido, rut, email  
  HAVING COUNT(clientes.id) >= 2;
```

	id	nombre	apellido	rut	email	CantidadDeMatriculas
1	1	Cliente 1	Apellido cliente 1	999999999	cliente1@email.com	3

```
SELECT * FROM clientes;
```

```
SELECT * FROM matriculas;
```