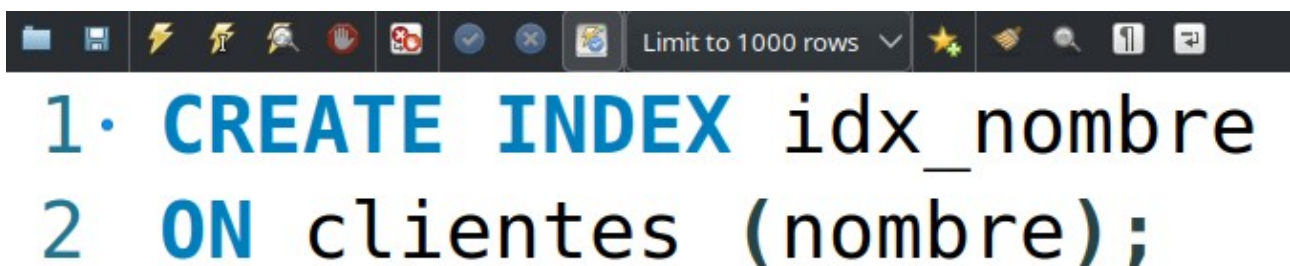


```
1. CREATE DATABASE OptConsultas;
2. Use OptConsultas;
3
4. CREATE TABLE clientes (
5   id INT PRIMARY KEY,
6   nombre VARCHAR(100),
7   email VARCHAR(100)
8 );
9
```



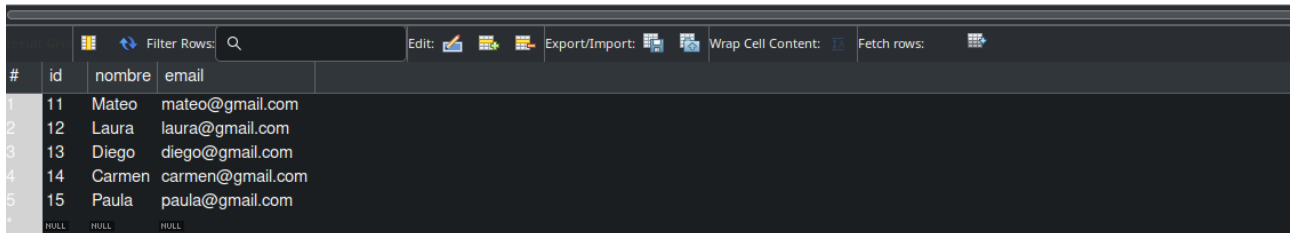
```
1. CREATE INDEX idx_nombre
2 ON clientes (nombre);
```

```
1. INSERT INTO clientes (id, nombre, email)
2 VALUES
3 (1, 'Juan', 'juan@gmail.com'),
4 (2, 'María', 'maria@gmail.com'),
5 (3, 'Carlos', 'carlos@gmail.com'),
6 (4, 'Ana', 'ana@gmail.com'),
7 (5, 'Luis', 'luis@gmail.com'),
8 (6, 'Pedro', 'pedro@gmail.com'),
9 (7, 'Clara', 'clara@gmail.com'),
10 (8, 'Sofía', 'sofia@gmail.com'),
11 (9, 'Andrés', 'andres@gmail.com'),
12 (10, 'Elena', 'elena@gmail.com'),
13 (11, 'Mateo', 'mateo@gmail.com'),
14 (12, 'Laura', 'laura@gmail.com'),
15 (13, 'Diego', 'diego@gmail.com'),
16 (14, 'Carmen', 'carmen@gmail.com'),
17 (15, 'Paula', 'paula@gmail.com');
```

```
1. SELECT * FROM clientes LIMIT 10;
```

#	id	nombre	email
1	1	Juan	juan@gmail.com
2	2	María	maria@gmail.com
3	3	Carlos	carlos@gmail.com
4	4	Ana	ana@gmail.com
5	5	Luis	luis@gmail.com
6	6	Pedro	pedro@gmail.com
7	7	Clara	clara@gmail.com
8	8	Sofía	sofia@gmail.com
9	9	Andrés	andres@gmail.com
10	10	Elena	elena@gmail.com
*			

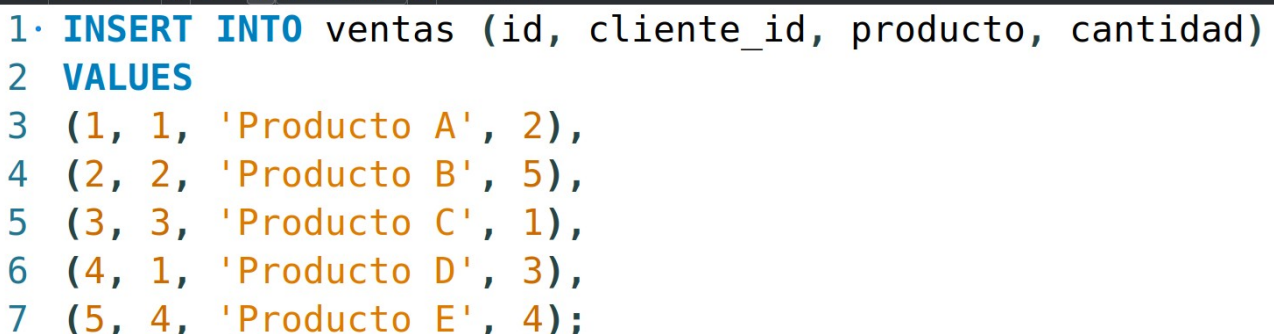
```
1 SELECT * FROM clientes LIMIT 10 OFFSET 10;
```



A screenshot of a database client interface. The top toolbar includes icons for file operations, a search bar, and a 'Limit to 1000 rows' dropdown. Below the toolbar, a table of results is displayed with columns labeled '#', 'id', 'nombre', and 'email'. The table contains five rows of data, numbered 1 to 5 on the left. The data rows show IDs 11 through 15 and corresponding names and email addresses.

#	id	nombre	email
1	11	Mateo	mateo@gmail.com
2	12	Laura	laura@gmail.com
3	13	Diego	diego@gmail.com
4	14	Carmen	carmen@gmail.com
5	15	Paula	paula@gmail.com

```
1 CREATE TABLE ventas (  
2   id INT PRIMARY KEY,  
3   cliente_id INT,  
4   producto VARCHAR(100),  
5   cantidad INT  
6 );
```



A screenshot of a database client interface showing a series of SQL insert statements. The top toolbar is identical to the previous screenshot. The SQL code is displayed in a monospaced font, with line numbers 1 through 7 on the left. The code inserts five rows into a table named 'ventas'.

```
1 INSERT INTO ventas (id, cliente_id, producto, cantidad)  
2 VALUES  
3 (1, 1, 'Producto A', 2),  
4 (2, 2, 'Producto B', 5),  
5 (3, 3, 'Producto C', 1),  
6 (4, 1, 'Producto D', 3),  
7 (5, 4, 'Producto E', 4);
```

```

1. SELECT *
2 FROM ventas
3 WHERE cliente_id = (
4 SELECT id
5 FROM clientes
6 WHERE nombre = 'Juan'
7 );
8

```

#	id	cliente_id	producto	cantidad
1	1	1	Producto A	2
2	4	1	Producto D	3
*	NULL	NULL	NULL	NULL

```

1. SELECT ventas.*
2 FROM ventas
3 JOIN clientes ON ventas.cliente_id = clientes.id
4 WHERE clientes.nombre = 'Juan';

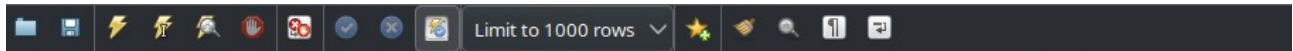
```

#	id	cliente_id	producto	cantidad
1	1	1	Producto A	2
2	4	1	Producto D	3

```

1. CREATE VIEW ventas_por_cliente AS
2 SELECT clientes.nombre, SUM(ventas.cantidad) as total_ventas
3 FROM clientes
4 JOIN ventas ON ventas.cliente_id = clientes.id
5 GROUP BY clientes.nombre;

```



1. **SELECT** * **FROM** ventas_por_cliente;
2

#	nombre	total_ventas
1	Juan	5
2	María	5
3	Carlos	1
4	Ana	4