

```
mysql> SELECT DISTINCT c.*
-> FROM cliente c
-> INNER JOIN factura f ON c.id_cliente = f.id_cliente;
```

| id_cliente | nombre | apellido | direccion   | telefono   | correo             | municipio  | departamento  | pais     | creado              |
|------------|--------|----------|-------------|------------|--------------------|------------|---------------|----------|---------------------|
| ID001      | Juan   | Perez    | Calle 123   | 1234567890 | juan@example.com   | Municipio1 | Departamento1 | Colombia | 2023-07-24 23:19:12 |
| ID002      | Maria  | Lopez    | Avenida 456 | 9876543210 | maria@example.com  | Municipio2 | Departamento2 | Colombia | 2023-07-24 23:19:13 |
| ID003      | Pedro  | Gomez    | Plaza 789   | 5678901234 | pedro@example.com  | Municipio3 | Departamento3 | Colombia | 2023-07-24 23:19:13 |
| ID004      | Laura  | Ramirez  | Calle 234   | 2345678901 | laura@example.com  | Municipio4 | Departamento4 | Colombia | 2023-07-24 23:19:13 |
| ID005      | Carlos | Martinez | Avenida 567 | 8901234567 | carlos@example.com | Municipio5 | Departamento5 | Colombia | 2023-07-24 23:19:13 |

10 rows in set (0.02 sec)

```
mysql> SELECT c.*, f.*
-> FROM cliente c
-> LEFT JOIN factura f ON c.id_cliente = f.id_cliente;
```

| id_cliente | nombre | apellido | direccion   | telefono   | correo             | municipio  | departamento  | pais     | creado              | num_factura | id_cliente | id_producto | creado              |
|------------|--------|----------|-------------|------------|--------------------|------------|---------------|----------|---------------------|-------------|------------|-------------|---------------------|
| ID001      | Juan   | Perez    | Calle 123   | 1234567890 | juan@example.com   | Municipio1 | Departamento1 | Colombia | 2023-07-24 23:19:12 | FAC-101     | ID001      | 1           | 2023-07-24 23:19:38 |
| ID001      | Juan   | Perez    | Calle 123   | 1234567890 | juan@example.com   | Municipio1 | Departamento1 | Colombia | 2023-07-24 23:19:12 | FAC-100     | ID001      | 1           | 2023-07-24 23:19:38 |
| ID002      | Maria  | Lopez    | Avenida 456 | 9876543210 | maria@example.com  | Municipio2 | Departamento2 | Colombia | 2023-07-24 23:19:13 | FAC-103     | ID002      | 4           | 2023-07-24 23:19:38 |
| ID002      | Maria  | Lopez    | Avenida 456 | 9876543210 | maria@example.com  | Municipio2 | Departamento2 | Colombia | 2023-07-24 23:19:13 | FAC-102     | ID002      | 3           | 2023-07-24 23:19:38 |
| ID003      | Pedro  | Gomez    | Plaza 789   | 5678901234 | pedro@example.com  | Municipio3 | Departamento3 | Colombia | 2023-07-24 23:19:13 | FAC-105     | ID003      | 6           | 2023-07-24 23:19:38 |
| ID003      | Pedro  | Gomez    | Plaza 789   | 5678901234 | pedro@example.com  | Municipio3 | Departamento3 | Colombia | 2023-07-24 23:19:13 | FAC-104     | ID003      | 5           | 2023-07-24 23:19:38 |
| ID004      | Laura  | Ramirez  | Calle 234   | 2345678901 | laura@example.com  | Municipio4 | Departamento4 | Colombia | 2023-07-24 23:19:13 | FAC-107     | ID004      | 8           | 2023-07-24 23:19:38 |
| ID004      | Laura  | Ramirez  | Calle 234   | 2345678901 | laura@example.com  | Municipio4 | Departamento4 | Colombia | 2023-07-24 23:19:13 | FAC-106     | ID004      | 7           | 2023-07-24 23:19:38 |
| ID005      | Carlos | Martinez | Avenida 567 | 8901234567 | carlos@example.com | Municipio5 | Departamento5 | Colombia | 2023-07-24 23:19:13 | FAC-109     | ID005      | 10          | 2023-07-24 23:19:38 |
| ID005      | Carlos | Martinez | Avenida 567 | 8901234567 | carlos@example.com | Municipio5 | Departamento5 | Colombia | 2023-07-24 23:19:13 | FAC-108     | ID005      | 9           | 2023-07-24 23:19:38 |

10 rows in set (0.00 sec)

```
mysql> INSERT INTO Cliente (id_cliente, nombre, apellido, direccion, telefono, correo, municipio, departamento, pais)
-> VALUES
-> ('ID006', 'Calixto', 'Raul', 'Calle 234', '5678903453', 'calixto@example.com', 'Municipio6', 'Departamento6', 'Colombia'),
-> ('ID007', 'Ana', 'Miriam', 'Avenida 345', '6789012345', 'ana@example.com', 'Municipio7', 'Departamento7', 'Colombia'),
-> ('ID008', 'Ricardo', 'Gonzalez', 'Plaza 678', '7890123456', 'ricardo@example.com', 'Municipio8', 'Departamento8', 'Colombia'),
-> ('ID009', 'Fernanda', 'Linda', 'Calle 890', '8901234567', 'fernanda@example.com', 'Municipio9', 'Departamento9', 'Colombia'),
-> ('ID010', 'Miguel', 'Pietri', 'Avenida 123', '9012345678', 'miguel@example.com', 'Municipio10', 'Departamento10', 'Colombia'),
-> ('ID011', 'Carolina', 'gratis', 'Plaza 456', '0123456789', 'carolina@example.com', 'Municipio11', 'Departamento11', 'Colombia'),
-> ('ID012', 'Roberto', 'Parra', 'Calle 789', '2345678901', 'roberto@example.com', 'Municipio12', 'Departamento12', 'Colombia'),
-> ('ID013', 'Isabel', 'Clarín', 'Avenida 234', '3456789012', 'isabel@example.com', 'Municipio13', 'Departamento13', 'Colombia'),
-> ('ID014', 'Lucia', 'boli', 'Plaza 567', '4567890123', 'lucia@example.com', 'Municipio14', 'Departamento14', 'Colombia'),
-> ('ID015', 'Jorge', 'torres', 'Calle 890', '5678901234', 'jorge@example.com', 'Municipio15', 'Departamento15', 'Colombia'),
-> ('ID016', 'Marcela', 'pilaty', 'Avenida 123', '6789012345', 'marcela@example.com', 'Municipio16', 'Departamento16', 'Colombia'),
-> ('ID017', 'Andres', 'ponnas', 'Plaza 456', '7890123456', 'andres@example.com', 'Municipio17', 'Departamento17', 'Colombia'),
-> ('ID018', 'Sofia', 'Garcia', 'Calle 789', '8901234567', 'sofia@example.com', 'Municipio18', 'Departamento18', 'Colombia'),
-> ('ID019', 'Alejandro', 'Histo', 'Avenida 234', '9012345678', 'alejandro@example.com', 'Municipio19', 'Departamento19', 'Colombia'),
-> ('ID020', 'Diana', 'londono', 'Plaza 567', '0123456789', 'diana@example.com', 'Municipio20', 'Departamento20', 'Colombia');
```

Query OK, 15 rows affected (0.03 sec)  
Records: 15 Duplicates: 0 Warnings: 0

```
mysql>
mysql>
mysql> INSERT INTO factura (num_factura, id_cliente, id_producto)
-> VALUES
-> ('FAC-110', 'ID006', '011'),
-> ('FAC-111', 'ID006', '012'),
-> ('FAC-112', 'ID007', '013'),
-> ('FAC-113', 'ID007', '014'),
-> ('FAC-114', 'ID008', '015'),
-> ('FAC-115', 'ID008', '016'),
-> ('FAC-116', 'ID009', '017'),
-> ('FAC-117', 'ID009', '018'),
-> ('FAC-118', 'ID010', '019'),
-> ('FAC-119', 'ID010', '020'),
-> ('FAC-120', 'ID011', '021'),
-> ('FAC-121', 'ID011', '022'),
-> ('FAC-122', 'ID012', '023'),
-> ('FAC-123', 'ID012', '024'),
-> ('FAC-124', 'ID013', '025');
```

Query OK, 15 rows affected (0.03 sec)  
Records: 15 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO productos (id_producto, nombre, precio, stock, num_factura)
-> VALUES
-> ('014', 'shampoo', 16000, 25, 'FAC-113'),
-> ('015', 'acondicionador', 18000, 20, 'FAC-114'),
-> ('016', 'gel de ducha', 12000, 30, 'FAC-115'),
-> ('017', 'crema corporal', 22000, 15, 'FAC-116'),
-> ('018', 'rasuradora', 10000, 40, 'FAC-117'),
-> ('019', 'espuma de afeitar', 8000, 35, 'FAC-118'),
-> ('020', 'cepillo para el cabello', 6000, 50, 'FAC-119'),
-> ('021', 'tinte para cabello', 18000, 10, 'FAC-120'),
-> ('022', 'maquillaje', 25000, 5, 'FAC-121'),
-> ('023', 'esmalte de uñas', 12000, 25, 'FAC-122'),
-> ('024', 'locion after shave', 14000, 20, 'FAC-123'),
-> ('025', 'perfume', 35000, 10, 'FAC-124'),
-> ('026', 'crema para pies', 18000, 15, 'FAC-125'),
-> ('027', 'talco', 8000, 30, 'FAC-126'),
-> ('028', 'seda dental', 5000, 40, 'FAC-127');
```

Query OK, 15 rows affected (0.05 sec)  
Records: 15 Duplicates: 0 Warnings: 0

```
mysql> SELECT c.*, f.*
-> FROM cliente c
-> LEFT JOIN factura f ON c.id_cliente = f.id_cliente;
```

| id_cliente | nombre | apellido | direccion   | telefono   | correo             | municipio  | departamento  | pais     | creado              | num_factura | id_cliente | id_producto | creado              |
|------------|--------|----------|-------------|------------|--------------------|------------|---------------|----------|---------------------|-------------|------------|-------------|---------------------|
| ID001      | Juan   | Perez    | Calle 123   | 1234567890 | juan@example.com   | Municipio1 | Departamento1 | Colombia | 2023-07-24 23:19:12 | FAC-101     | ID001      | 1           | 2023-07-24 23:19:38 |
| ID001      | Juan   | Perez    | Calle 123   | 1234567890 | juan@example.com   | Municipio1 | Departamento1 | Colombia | 2023-07-24 23:19:12 | FAC-100     | ID001      | 1           | 2023-07-24 23:19:38 |
| ID002      | Maria  | Lopez    | Avenida 456 | 9876543210 | maria@example.com  | Municipio2 | Departamento2 | Colombia | 2023-07-24 23:19:13 | FAC-103     | ID002      | 4           | 2023-07-24 23:19:38 |
| ID002      | Maria  | Lopez    | Avenida 456 | 9876543210 | maria@example.com  | Municipio2 | Departamento2 | Colombia | 2023-07-24 23:19:13 | FAC-102     | ID002      | 3           | 2023-07-24 23:19:38 |
| ID003      | Pedro  | Gomez    | Plaza 789   | 5678901234 | pedro@example.com  | Municipio3 | Departamento3 | Colombia | 2023-07-24 23:19:13 | FAC-105     | ID003      | 6           | 2023-07-24 23:19:38 |
| ID003      | Pedro  | Gomez    | Plaza 789   | 5678901234 | pedro@example.com  | Municipio3 | Departamento3 | Colombia | 2023-07-24 23:19:13 | FAC-104     | ID003      | 5           | 2023-07-24 23:19:38 |
| ID004      | Laura  | Ramirez  | Calle 234   | 2345678901 | laura@example.com  | Municipio4 | Departamento4 | Colombia | 2023-07-24 23:19:13 | FAC-107     | ID004      | 8           | 2023-07-24 23:19:38 |
| ID004      | Laura  | Ramirez  | Calle 234   | 2345678901 | laura@example.com  | Municipio4 | Departamento4 | Colombia | 2023-07-24 23:19:13 | FAC-106     | ID004      | 7           | 2023-07-24 23:19:38 |
| ID005      | Carlos | Martinez | Avenida 567 | 8901234567 | carlos@example.com | Municipio5 | Departamento5 | Colombia | 2023-07-24 23:19:13 | FAC-109     | ID005      | 10          | 2023-07-24 23:19:38 |
| ID005      | Carlos | Martinez | Avenida 567 | 8901234567 | carlos@example.com | Municipio5 | Departamento5 | Colombia | 2023-07-24 23:19:13 | FAC-108     | ID005      | 9           | 2023-07-24 23:19:38 |

10 rows in set (0.00 sec)