```
Enter password: *******
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 85
Server version: 8.0.17 MySQL Community Server - GPL
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owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> CREATE DATABASE sandwich;
Query OK, 1 row affected (0.26 sec)
mysql>
mysql> CREATE TABLE tastes (
  -> name VARCHAR(20),
  -> filling VARCHAR(20),
  -> PRIMARY KEY (name, filling)
ERROR 1046 (3D000): No database selected
mysql> use sandwich;
Database changed
mysql> CREATE TABLE tastes (
  -> name VARCHAR(20),
  -> filling VARCHAR(20),
  -> PRIMARY KEY (name, filling)
  -> );
Query OK, 0 rows affected (1.40 sec)
mysql> INSERT INTO tastes
  -> values ('Brown', 'Turkey'),
  -> ('Brown', 'Beef'),
  -> ('Brown', 'Ham'),
  -> ('Jones', 'Cheese'),
  -> ('Green', 'Beef'),
  -> ('Green', 'Turkey'),
  -> ('Green','Cheese');
Query OK, 7 rows affected (0.21 sec)
```

Records: 7 Duplicates: 0 Warnings: 0

```
mysgl> CREATE TABLE locations (
  ->
        LName VARCHAR(30),
  ->
        Phone VARCHAR(10),
       Address VARCHAR(50),
  ->
  ->
        PRIMARY KEY(LName)
  ->
        );
Query OK, 0 rows affected (0.61 sec)
mysgl> INSERT INTO locations
       VALUES ('Lincoln', '6834523', 'Lincoln Place'),
       ('O\'Neill\'s', '674 2134', 'Pearse St'),
  ->
  ->
       ('Old Nag', '767 8132', 'Dame St'),
        ('Buttery', '702 3421', 'College St');
  ->
Query OK, 4 rows affected (0.21 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> CREATE TABLE sandwiches (
  ->
        Location VARCHAR(30),
  ->
        Bread VARCHAR(15),
  ->
        Filling VARCHAR(20),
  ->
        Price FLOAT(5, 2),
  ->
        PRIMARY KEY(Location, Bread, Filling),
  ->
        FOREIGN KEY(Location) REFERENCES locations(LName)
  ->
        );
Query OK, 0 rows affected, 1 warning (0.76 sec)
mysgl> INSERT INTO sandwiches
  ->
        VALUES('Lincoln', 'Rye', 'Ham', 1.25),
        ('O\'Neill\'s', 'White', 'Cheese', 1.20),
  ->
  ->
        ('O\'Neill\'s', 'Whole', 'Ham', 1.25),
  ->
        ('Old Nag', 'Rye', 'Beef', 1.35),
  ->
        ('Buttery', 'White', 'Cheese', 1.00),
  ->
        ('O\'Neill\'s', 'White', 'Turkey', 1.35),
  ->
        ('Buttery', 'White', 'Ham', 1.10),
  ->
        ('Lincoln', 'Rye', 'Beef', 1.35),
  ->
        ('Lincoln', 'White', 'Ham', 1.30),
  ->
        ('Old Nag', 'Rye', 'Ham', 1.40);
Query OK, 10 rows affected (0.34 sec)
Records: 10 Duplicates: 0 Warnings: 0
mysql>
```

```
(i) places where Jones can eat (using a nested subquery)
mysql>
mysql>
mysql> SELECT Location FROM sandwiches
  -> WHERE Filling IN((
       SELECT filling FROM tastes
  -> WHERE name = 'Jones')
  -> );
+----+
| Location |
+----+
| Buttery |
| O'Neill's |
+----+
2 rows in set (0.05 sec)
mysql>
(ii) places where Jones can eat (without using a nested subquery).
mysql>
mysql> SELECT sandwiches.Location
  -> FROM tastes JOIN sandwiches
  -> USING(filling)
  -> WHERE tastes.name = 'Jones';
+----+
| Location |
+----+
| Buttery |
| O'Neill's |
+----+
2 rows in set (0.00 sec)
mysql>
(iii) for each location the number of people who can eat there.
mysql> SELECT Location, COUNT(DISTINCT name)
  -> FROM tastes JOIN sandwiches USING (filling)
  -> GROUP BY Location;
```

```
+-----+
| Location | COUNT(DISTINCT name) |
+-----+
| Buttery | 3 |
| Lincoln | 2 |
| O'Neill's | 3 |
| Old Nag | 2 |
+-----+
4 rows in set (0.07 sec)
```