```
irasnyd@duallie irasnyd $ mysql -u root -p cs435
Enter password:
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8 to server version: 4.1.8

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> select * from members;
+------------+----------------+---------+
| name       | address        | balance |
+------------+----------------+---------+
| Brooks, B. | 7 Apple Rd.    |   10.50 |
| Field, W.  | 43 Cherry La.  |    0.00 |
| Robin, R.  | 12 Heather St. | -123.45 |
| Hart, W.   | 65 Lark Rd.    |  -43.00 |
+------------+----------------+---------+
4 rows in set (0.02 sec)

mysql> select * from orders;
+----------+------------+-----------------+----------+
| order_no | name       | item            | quantity |
+----------+------------+-----------------+----------+
|        1 | Brooks, B. | Granola         |        5 |
|        2 | Brooks, B. | Unbleached Flour |       10 |
|        3 | Robin, R.  | Granola         |        3 |
|        4 | Hart, W.   | Whey            |        5 |
|        5 | Robin, R.  | Sunflower Seeds |        2 |
|        6 | Robin, R.  | Lettuce         |        8 |
+----------+------------+-----------------+----------+
6 rows in set (0.00 sec)

mysql> select * from suppliers;
+------------------+--------------------+-----------------+-------+
| sname            | saddress           | item            | price |
+------------------+--------------------+-----------------+-------+
| Sunshine Produce | 16 River St.       | Granola         |  1.29 |
| Sunshine Produce | 16 River St.       | Lettuce         |  0.89 |
| Sunshine Produce | 16 River St.       | Sunflower Seeds |  1.09 |
| Purity Foodstuffs | 180 Industrial Rd. | Whey           |  0.70 |
| Purity Foodstuffs | 180 Industrial Rd. | Curds          |  0.80 |
| Purity Foodstuffs | 180 Industrial Rd. | Granola        |  1.25 |
| Purity Foodstuffs | 180 Industrial Rd. | Unbleached Flour |  0.65 |
| Tasti Supply Co.  | 17 River St.       | Lettuce        |  0.79 |
| Tasti Supply Co.  | 17 River St.       | Whey           |  0.79 |
| Tasti Supply Co.  | 17 River St.       | Sunflower Seeds |  1.19 |
+------------------+--------------------+-----------------+-------+
10 rows in set (0.00 sec)

mysql> SELECT name FROM members
    -> WHERE  name NOT IN
    ->      (SELECT name FROM orders
    ->       WHERE  item='Lettuce')
    -> ;
+------------+
| name       |
+------------+
| Brooks, B. |
| Field, W.  |
| Hart, W.   |
+------------+
```

```
3 rows in set (0.00 sec)

mysql> SELECT name,address FROM members
    -> WHERE   name IN
    ->      (SELECT name FROM orders
    ->       WHERE   item IN
    ->          (SELECT item FROM suppliers
    ->           WHERE   sname='Sunshine Produce')
    ->      )
    -> ;
+-----------+----------------+
| name      | address        |
+-----------+----------------+
| Brooks, B. | 7 Apple Rd.    |
| Robin, R.  | 12 Heather St. |
+-----------+----------------+
2 rows in set (0.00 sec)

mysql> SELECT sname,item,price FROM suppliers
    -> WHERE   item NOT IN
    ->      (SELECT item FROM orders
    ->       WHERE   name='Brooks, B.')
    -> ;
+------------------+----------------+-------+
| sname            | item           | price |
+------------------+----------------+-------+
| Sunshine Produce | Lettuce        |  0.89 |
| Sunshine Produce | Sunflower Seeds |  1.09 |
| Purity Foodstuffs | Whey          |  0.70 |
| Purity Foodstuffs | Curds         |  0.80 |
| Tasti Supply Co.  | Lettuce       |  0.79 |
| Tasti Supply Co.  | Whey          |  0.79 |
| Tasti Supply Co.  | Sunflower Seeds |  1.19 |
+------------------+----------------+-------+
7 rows in set (0.00 sec)

mysql> SELECT sname FROM suppliers
    -> WHERE   item IN
    ->      (SELECT item FROM orders
    ->       WHERE   name='Brooks, B.')
    -> GROUP BY sname
    -> HAVING COUNT(sname) =
    ->      (SELECT COUNT(DISTINCT item) FROM orders
    ->       WHERE   name='Brooks, B.')
    -> ;
+------------------+
| sname            |
+------------------+
| Purity Foodstuffs |
+------------------+
1 row in set (0.00 sec)

mysql> SELECT s.sname FROM suppliers s, orders o
    -> WHERE   o.item=s.item
    -> AND o.name='Brooks, B.'
    -> GROUP BY s.sname
    -> HAVING COUNT(*)=(SELECT COUNT(*) FROM orders
    ->                  WHERE name='Brooks, B.');
+------------------+
| sname            |
+------------------+
| Purity Foodstuffs |
+------------------+
```

```
1 row in set (0.03 sec)

mysql> SELECT DISTINCT sname FROM suppliers
    -> WHERE item IN
    ->     (SELECT item FROM orders
    ->      WHERE name='Brooks, B.')
    -> ;
+-------------------+
| sname             |
+-------------------+
| Sunshine Produce  |
| Purity Foodstuffs |
+-------------------+
2 rows in set (0.00 sec)

mysql> SELECT item,AVG(price) FROM suppliers
    -> WHERE  item IN
    ->     (SELECT DISTINCT item FROM suppliers)
    -> GROUP BY item;
+-----------------+------------+
| item            | AVG(price) |
+-----------------+------------+
| Curds           |   0.800000 |
| Granola         |   1.270000 |
| Lettuce         |   0.840000 |
| Sunflower Seeds |   1.140000 |
| Unbleached Flour|   0.650000 |
| Whey            |   0.745000 |
+-----------------+------------+
6 rows in set (0.00 sec)

mysql> SELECT sname,item FROM suppliers;
+-------------------+-----------------+
| sname             | item            |
+-------------------+-----------------+
| Sunshine Produce  | Granola         |
| Sunshine Produce  | Lettuce         |
| Sunshine Produce  | Sunflower Seeds |
| Purity Foodstuffs | Whey            |
| Purity Foodstuffs | Curds           |
| Purity Foodstuffs | Granola         |
| Purity Foodstuffs | Unbleached Flour|
| Tasti Supply Co.  | Lettuce         |
| Tasti Supply Co.  | Whey            |
| Tasti Supply Co.  | Sunflower Seeds |
+-------------------+-----------------+
10 rows in set (0.00 sec)

mysql> SELECT name FROM members
    -> WHERE name IN
    ->     (SELECT name FROM
    ->         (SELECT name,COUNT(name) FROM orders
    ->          GROUP BY name HAVING COUNT(name)>=2)
    ->      AS temp_tbl1)
    -> ;
+------------+
| name       |
+------------+
| Brooks, B. |
| Robin, R.  |
+------------+
2 rows in set (0.00 sec)
```

```
mysql> SELECT sname,COUNT(sname) FROM suppliers
    -> GROUP BY sname;
+-------------------+--------------+
| sname             | COUNT(sname) |
+-------------------+--------------+
| Purity Foodstuffs |            4 |
| Sunshine Produce  |            3 |
| Tasti Supply Co.  |            3 |
+-------------------+--------------+
3 rows in set (0.00 sec)

mysql> SELECT sname FROM suppliers
    -> WHERE item IN
    ->     (SELECT item FROM
    ->         (SELECT item,COUNT(item) FROM orders
    ->          GROUP BY item
    ->          HAVING COUNT(item)>1)
    ->      AS temp_tbl1)
    -> ;
+-------------------+
| sname             |
+-------------------+
| Sunshine Produce  |
| Purity Foodstuffs |
+-------------------+
2 rows in set (0.00 sec)

mysql> SELECT DISTINCT sname FROM suppliers
    -> WHERE  sname IN
    ->     (SELECT sname FROM suppliers
    ->      WHERE  item='Lettuce')
    -> AND sname IN
    ->     (SELECT sname FROM suppliers
    ->      WHERE  item='Whey')
    -> ;
+------------------+
| sname            |
+------------------+
| Tasti Supply Co. |
+------------------+
1 row in set (0.00 sec)

mysql> SELECT DISTINCT name FROM members
    -> WHERE  name IN
    ->     (SELECT name FROM orders
    ->      WHERE  item='Lettuce')
    -> OR name IN
    ->     (SELECT name FROM orders
    ->      WHERE  item='Whey')
    -> ;
+-----------+
| name      |
+-----------+
| Hart, W.  |
| Robin, R. |
+-----------+
2 rows in set (0.00 sec)

mysql> SELECT name FROM members
    -> WHERE  name NOT IN
    ->     (SELECT name FROM orders
    ->      WHERE  item IN
    ->         (SELECT DISTINCT item FROM orders
```

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    ->            WHERE  item<>'Whey')
    ->        )
    -> AND name IN
    ->       (SELECT DISTINCT name FROM orders)
    -> ;
+----------+
| name     |
+----------+
| Hart, W. |
+----------+
1 row in set (0.00 sec)

mysql> quit
Bye
```