

```
1  -- 1. Show the cities of agents booking an order for a customer whose id is 'c006'.
2  select agents.city
3  From Agents
4  Inner Join Orders
5  On Orders.cid = 'c006'
6  Where Orders.aid = Agents.aid
7
```

Data Output

Explain

Messages

History

<input type="checkbox"/>	city text
<input type="checkbox"/>	New York
<input type="checkbox"/>	Tokyo
<input type="checkbox"/>	Dallas

```

9      -- 2. Show the ids of products ordered through any agent who makes at least one order for a customer in Kyoto,
10     -- sorted by pid from highest to lowest. Use joins; no subqueries.
11     select Orders.pid
12     From Orders
13         Inner Join Agents
14             on orders.aid = agents.aid
15         Inner Join customers
16             on orders.cid = customers.cid
17         Where customers.city = 'Kyoto'
18     order by orders.pid desc;

```

Data Output Explain Messages History

<input type="checkbox"/>	pid character
<input type="checkbox"/>	p07
<input type="checkbox"/>	p01
<input type="checkbox"/>	p01

```
21 -- 3. Show the names of customers who have never placed an order. Use a subquery.
22 Select name
23   From customers
24  Where customers.cid Not in (
25                               Select cid
26                               from orders
27                               );
```

Data Output

Explain

Messages

History



name  
text



Weyland

```
29 -- 4. Show the names of customers who have never placed an order. Use an outer join.
30 Select customers.name
31 From orders Right Outer Join customers
32 on orders.cid = customers.cid
33 where orders.ordnumber is null;
```

Data Output

Explain

Messages

History



name  
text



Weyland

```

35 -- 5. Show the names of customers who placed at least one order through an agent in their own city, along with those agent(s') names.
36 Select distinct customers.name, agents.name
37 From customers
38 Inner Join agents
39 on customers.city = agents.city
40 Left Outer Join Orders
41 on orders.cid = customers.cid
42 where orders.aid = agents.aid;

```

Data Output Explain Messages History

<input type="checkbox"/>	name text	name text	
<input type="checkbox"/>	Tiptop	Otasi	

```
45 -- 6. Show the names of customers and agents living in the same city, along with the name of the shared city,  
46 -- regardless of whether or not the customer has ever placed an order with that agent.  
47 select customers.name, agents.name, customers.city  
48 from customers  
49     Inner Join Agents  
50     on customers.city = Agents.city  
51
```

Data Output Explain Messages History

<input type="checkbox"/>	name text	name text	city text
<input type="checkbox"/>	ACME	Otasi	Duluth
<input type="checkbox"/>	Tiptop	Otasi	Duluth
<input type="checkbox"/>	Allied	Smith	Dallas
<input type="checkbox"/>	Tyrell	Smith	Dallas

```
52 -- 7. Show the name and city of customers who live in the city that makes the fewest different kinds of products.
53 -- (Hint: Use count and group by on the Products table.)
54 select distinct customers.city, customers.name
55   from customers
56   inner Join Products
57     on customers.city = Products.city
58  Where Products.city = (
59      Select *
60      From (
61      select products.city
62      from products
63      group by Products.city
64      order by count(Products.city) asc
65      ) As L_H
66      Limit 1
67  )
68 -- THIS ONE WAS REALLY HARD
```

Data Output Explain Messages History

<input type="checkbox"/>	city text	name text
<input type="checkbox"/>	Duluth	ACME
<input type="checkbox"/>	Duluth	Tiptop

Total query runtime: 348 msec.  
2 rows retrieved.