1.

```
3 •    select title, retail
4      from BOOKS
5      where retail < (select avg(retail) from BOOKS);
```

100%   ⇕   48:5

Result Grid ⊞ ↻ Filter Rows: 🔍 Search   Export: 🖫

title	retail	
▶ HOW TO GET FASTER PIZZA	29.95	
THE WOK WAY TO COOK	28.75	
REVENGE OF MICKEY	22.00	
BODYBUILD IN 10 MINUTES A DAY	30.95	
HANDCRANKED COMPUTERS	25.00	
SHORTEST POEMS	39.95	
COOKING WITH MUSHROOMS	19.95	
BIG BEAR AND LITTLE DOVE	8.95	
HOW TO MANAGE THE MANAGER	31.95	

2.

```
6
7 •    select a.title, b.category, a.cost
8      from BOOKS a, (select category, avg(cost) average from BOOKS group by category) b
9      where a.category = b.category and a.cost < b.average;
10
```

100%   ⇕   1:7

Result Grid ⊞ ↻ Filter Rows: 🔍 Search   Export: 🖫

title	category	cost
▶ REVENGE OF MICKEY	FAMILY LIFE	14.20
HANDCRANKED COMPUTERS	COMPUTER	21.80
COOKING WITH MUSHROOMS	COOKING	12.50
BIG BEAR AND LITTLE DOVE	CHILDREN	5.32
DATABASE IMPLEMENTATION	COMPUTER	31.40

3.

```
11 •    select order_num
12      from ORDERS
13      where shipstate = (select shipstate from ORDERS where order_num = 1014);
```

100% ⌃ 1:11

Result Grid | 🔛 ↻ Filter Rows: 🔍 Search   Export: 🖫

order_num
▶ 1007
1014

4.

```
15 •    select order_num, sum(quantity*paideach)
16      from ORDERITEMS
17      group by order_num
18 ⊖   having sum(quantity*paideach) > (select sum(quantity * paideach)
19                                             from ORDERITEMS
20                                             where order_num = 1002);
```

100% ⌃ 1:15

Result Grid | 🔛 ↻ Filter Rows: 🔍 Search   Export: 🖫

order_num	sum(quantity*paidea...
▶ 1001	117.40
1004	170.90
1007	335.85
1012	166.40

5.

```
22 •    select title
23      from BOOKS
24 ⊖   where category in (select distinct category
25                              from BOOKS join ORDERITEMS using (ISBN) join ORDERS using (order_num)
26                              where customer_num = 1007) and
27 ⊖                       ISBN not in (select ISBN
28                              from ORDERS join ORDERITEMS using (order_num)
29                              where customer_num = 1007);
```

100% ⌃ 1:22

Result Grid | 🔛 ↻ Filter Rows: 🔍 Search   Export: 🖫

title
▶ HANDCRANKED COMPUTERS
PAINLESS CHILD-REARING
BUILDING A CAR WITH TOOTHPICKS

6.

```
31 •    select shipcity, shipstate
32      from ORDERS
33      where datediff(shipdate, orderdate) = (select max(datediff(shipdate, orderdate))
34                                                    from ORDERS);
```

100%   1:31

Result Grid   Filter Rows: Q Search   Export:

shipcity	shipstate
▶ TRENTON	NJ

7.

```
36 •    select customer_num
37      from ORDERS join ORDERITEMS using (order_num) join BOOKS using (ISBN)
38      where retail = (select min(retail)
39                       from BOOKS);
```

100%   1:36

Result Grid   Filter Rows: Q Search   Export:

customer_num
▶ 1007
1017
1015

8.

```
41 •    select count(distinct customer_num)
42      from ORDERS join ORDERITEMS using (order_num) join BOOKAUTHOR using (ISBN)
43  ⊖   where authorID = (select authorID
44      |                    from AUTHOR
45                          where lname = "Austin" and fname = "James");
```

100%   1:41

Result Grid   Filter Rows: Q Search   Export:

count(distinct customer_n...
▶ 5

9.

```
49 •   select product_name, list_price
50     from products
51     where list_price > (select avg(list_price)
52                                   from products)
53     order by list_price DESC;
```

100%   1:49

Result Grid   Filter Rows: Search   Export:

product_name	list_price
Gibson SG	2517.00
Gibson Les Paul	1199.00

10.

```
55 •   select category_name
56     from categories
57     where category_id not in (select category_id from products);
58
```

100%   1:55

Result Grid   Filter Rows: Search   Export:

category_name
Keyboards

11.

```
59 •   select email_address, order_id, order_date
60     from customers t join orders using (customer_id)
61  ⊖  where order_date = (select min(order_date)
62                                 from orders s
63                                 where t.customer_id = s.customer_id);
64
```

100%   ⇕   1:59

Result Grid ▦ ↩ Filter Rows: 🔍 Search   Export: 🖫

email_address	order_id	order_date
▶ allan.sherwood@yahoo.com	1	2012-03-28 09:40:28
barryz@gmail.com	2	2012-03-28 11:23:20
christineb@solarone.com	4	2012-03-30 15:22:31
david.goldstein@hotmail.com	5	2012-03-31 05:43:11
erinv@gmail.com	6	2012-03-31 18:37:22
frankwilson@sbcglobal.net	7	2012-04-01 23:11:12
gary_hernandez@yahoo.com	8	2012-04-02 11:26:38

12.

```
68 •   select id, name, salary
69     from instructor
70  ⊖  where salary = (select max(salary)
71                             from instructor);
72
73
```

100%   ⇕   1:68

Result Grid ▦ ↩ Filter Rows: 🔍 Search

id	name	salary
▶ 22222	Einstein	95000.00

13.

```
68 •    select id, name, salary
69      from instructor
70  ⊖  where salary = (select max(salary)
71                          from instructor
72  ⊖                          where salary < (select max(salary)
73                                  from instructor));
74
75
```

100%   ⌄   1:68

Result Grid   ▦ ↩ Filter Rows: 🔍 Search   Export: 🖫

id	name	salary
▶ 83821	Brandt	92000.00

14.

```
81 •    select instructor_id, name, max(cnt)
82  ⊖  from (select id as instructor_id, count(distinct course_id) as cnt
83          from teaches
84          group by id) t, instructor;
85
```

100%   ⌄   1:81

Result Grid   ▦ ↩ Filter Rows: 🔍 Search   Export: 🖫

instructor_...	name	max(cnt)
▶ 10101	Srinivasan	3