

Austin Hall

1.)

```
select title, retail
from BOOKS
where (select avg(retail)
from BOOKS) > retail;
```

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.)

```
select title, category, cost
from BOOKS b
where cost < (select avg(cost)
from BOOKS a
where a.category = b.category);
```

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.)

```
select Order_num
from ORDERS
where ShipState = (select ShipState
from ORDERS a
where Order_num = 1014);
```

Order_num
1007
1014
NULL

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4.)

```
select Order_num, sum(Quantity * PaidEach)
from ORDERITEMS
group by Order_num
having sum(Quantity * PaidEach) > (select sum(Quantity * PaidEach)
from ORDERITEMS
where Order_num = 1002);
```

Order_num	sum(Quantity * PaidEa...
1001	117.40
1004	170.90
1007	335.85
1012	166.40

5.)

```
select Title
from BOOKS
where Category in (select Category
from BOOKS join ORDERITEMS using (ISBN)
join ORDERS using (Order_num)
where Customer_num = 1007)
and ISBN not in (select ISBN
from ORDERS join ORDERITEMS using (Order_num)
where Customer_num = 1007);
```

Title
HANDCRANKED COMPUTERS
PAINLESS CHILD-REARING
BUILDING A CAR WITH TOOTHPICKS

6.)

```
select ShipCity, ShipState
from ORDERS
where datediff(ShipDate, OrderDate) = (select max(datediff(ShipDate, OrderDate))
from ORDERS);
```

ShipCity	ShipState
TRENTON	NJ

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7.)

```
select Customer_num
from ORDERS join ORDERITEMS using (Order_num)
join BOOKS using (ISBN)
where retail = (select min(retail)
from BOOKS);
```

Customer_num
1007
1017
1015

8.)

```
select count(distinct Customer_num)
from ORDERS join ORDERITEMS using (Order_num)
where ISBN in (
select ISBN
from ORDERITEMS join BOOKAUTHOR using (ISBN)
join AUTHOR using (AuthorID)
where Lname = "Austin"
and Fname = "James");
```

count(distinct Customer_num) ^
5

9.)

```
select product_name, list_price
from products
where list_price > (select avg(list_price)
from products)
order by list_price desc;
```

product_name	list_price
Gibson SG	2517.00
Gibson Les Paul	1199.00

10.)

```
select category_name
from categories c
where not exists(select category_id
from products p
where p.category_id = c.category_id);
```

category_name
Keyboards

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11.)

```
select email_address, order_id, order_date
from customers c join orders using (customer_id)
where order_date = (select min(order_date)
from orders o
where o.customer_id = c.customer_id);
```

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.)

```
select ID, name, salary
from instructor
where salary = (select max(salary)
from instructor)
and salary is not null;
```

ID	name	salary
22222	Einstein	95000.00

13.)

```
select ID, name, salary
from instructor
where salary = (select max(salary)
from instructor)
where salary not in (select max(salary)
from instructor)
and salary is not null;
```

ID	name	salary
83821	Brandt	92000.00

14.)

```
select ID, name, count(distinct course_id) as cnt
from instructor join teaches using (ID)
group by instructor.ID, instructor.name
having count(distinct course_id) = (select max(c)
from (select count(course_id) as c
from teaches
group by teaches.ID) derived);
```

ID	name	cnt
10101	Srinivasan	3