1.


```sql
select book_id,sum(qty)
from detail
group by book_id
order by book_id
```

BOOK_ID	SUM(QTY)
10010	60
20010	160
30010	86
30020	52
30040	8
40010	21
40030	72
50040	60

2.


```sql
select order_date,SUM(qty*price)
from order_head odh
join detail d on odh.order_no = d.order_no
join book b on b.book_id = d.book_id
group by odh.order_date
order by order_date
```

ORDER_DATE	SUM(QTY*PRICE)
20-JAN-03	8400
21-JAN-03	11900
22-JAN-03	8410
23-JAN-03	11090
24-JAN-03	32570
25-JAN-03	35865

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3.


```sql
select c.cust_no,c.cust_name,c.address
from customer c
join order_head odh on odh.cust_no = c.cust_no
where order_date >= ('22-Jan-2003') and order_date <= ('24-Jan-2003')
group by c.cust_no,c.cust_name,c.address
order by cust_no;
```

CUST_NO	CUST_NAME	ADDRESS
40001	Somchai Amuaychai	Bangkok
40005	Nattakan Wongsri	Nontaburi
40006	Maliza Nuanpeng	Bangkok
40008	Dejdamronth Pongwisuth	Bangkok

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4 rows selected.

4.


```sql
select o.order_no,SUM(d.qty*b.price)
from order_head o
join detail d on d.order_no = o.order_no
join book b on b.book_id = d.book_id
group by o.order_no
order by o.order_no
```

ORDER_NO	SUM(D.QTY*B.PRICE)
100001	8400
100002	7300
100003	4600
100004	8410
100006	11090
100007	5300
100008	3950
100009	4800

5.


```sql
select order_date,count(cust_no)
from order_head
group by order_date
order by count(cust_no) DESC
```

ORDER_DATE	COUNT(CUST_NO)
24-JAN-03	4
25-JAN-03	2
21-JAN-03	2
20-JAN-03	1
22-JAN-03	1
23-JAN-03	1

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6.


```sql
select o.order_no,sum(d.qty*b.price) total ,sum((d.qty*b.price)*(c.discount/100)) discount,
    sum(d.qty*b.price) - sum((d.qty*b.price) * (c.discount/100)) pay
from customer c
join order_head o on o.cust_no = c.cust_no
join detail d on d.order_no = o.order_no
join book b on b.book_id = d.book_id
group by o.order_no,c.discount
order by o.order_no
```

ORDER_NO	TOTAL	DISCOUNT	PAY
100001	8400	420	7980
100002	7300	438	6862
100003	4600	253	4347
100004	8410	672.8	7737.2
100006	11090	554.5	10535.5
100007	5300	212	5088

7.


```sql
1  select o.order_no,o.order_date,c.cust_no,c.cust_name
2  from order_head o
3  join customer c on c.cust_no = o.cust_no
4  join detail d on d.order_no = o.order_no
5  join book b on b.book_id = d.book_id
6  where b.book_name = 'Windows XP';
7  group by o.order_no,o.order_date,c.cust_no,c.cust_name
8
9
```

BOOK_ID	BOOK_NAME	AUTHER	PUB_ID	PRICE	STOCK	TYPE_BOOK
40030	Windows XP	Udom Taepanitch	P3333	130	100	General
50080	Windows XP	Somchai Prasertsuk	P2222	200	120	Computer

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2 rows selected.

8.


```sql
1  select cust_no, cust_name, address
2  from customer
3  where address = 'Bangkok'
4
```

CUST_NO	CUST_NAME	ADDRESS
40001	Somchai Amuaychai	Bangkok
40003	Kukiat Kompol	Bangkok
40006	Maliza Nuanpeng	Bangkok
40008	Dejdamronth Pongwisuth	Bangkok
40010	Lakana Lertsuk	Bangkok

9.


```sql
1  select o.order_no, c.cust_no, c.cust_name, o.order_date, o.tran_date
2  from order_head o
3  join customer c on c.cust_no = o.cust_no
4  where order_date + 5 = tran_date
5  group by o.order_no, c.cust_no, c.cust_name, o.order_date, o.tran_date
6
7
```

ORDER_NO	CUST_NO	CUST_NAME	ORDER_DATE	TRAN_DATE
100001	40001	Somchai Amuaychai	20-JAN-03	25-JAN-03
100002	40003	Kukiat Kompol	21-JAN-03	26-JAN-03
100003	40002	Ausa Wandee	21-JAN-03	26-JAN-03

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3 rows selected.

11.


```
1  select c.cust_no, c.cust_name, c.address
2  from customer c
3  join order_head o on o.cust_no = c.cust_no
4  where o.order_date < ('30-Jan-03')
5  group by c.cust_no, c.cust_name, c.address
6  order by cust_no
7
```

CUST_NO	CUST_NAME	ADDRESS
40001	Somchai Amuaychai	Bangkok
40002	Ausa Wandee	Nontaburi
40003	Kukiat Kompol	Bangkok
40005	Nattakan Wongsri	Nontaburi
40006	Maliza Nuanpeng	Bangkok
40007	Sureerat Inmor	Patumtani
40008	Dejdamronth Pongwisuth	Bangkok
40009	Pornchai Saebae	Nontaburi

12.


```
1  select b.book_id,b.book_name,b.author,b.price
2  from book b
3  join detail d on d.book_id = b.book_id
4  where order_no = '100010'
5  group by b.book_id,b.book_name,b.author,b.price
6  order by book_id
```

BOOK_ID	BOOK_NAME	AUTHOR	PRICE
10010	Cooking	Jarae Sukjai	80
20010	Travel World	Srisamorn	120
30010	Sleeping	Jarae Sukjai	150
30020	Nude Book	Udom Taepanitch	100
40010	Technology Life	Srisamorn	160
40030	Windows XP	Udom Taepanitch	130
50040	Star Magazine	Jarae Sukjai	130
50080	Windows XP	Somchai Prasertsuk	200

13.


```
1  select o.order_no,SUM(qty*price)
2  from order_head o
3  join detail d on d.order_no = o.order_no
4  join book b on b.book_id = d.book_id
5  join customer c on c.cust_no = o.cust_no
6  where c.cust_name = 'Somchai Amuaychai'
7  group by o.order_no
8  order by order_no
9
```

ORDER_NO	SUM(QTY*PRICE)
100001	8400
100006	11090
100010	18520

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3 rows selected.

14.

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```
1  select o.order_no,sum((d.qty*b.price)*(c.discount/100)) discount
2  from customer c
3  join order_head o on o.cust_no = c.cust_no
4  join detail d on d.order_no = o.order_no
5  join book b on b.book_id = d.book_id
6  group by o.order_no,c.discount
7  order by o.order_no
```

ORDER_NO	DISCOUNT
100001	420
100002	438
100003	253
100004	672.8
100006	554.5
100007	212

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```
1  select b.book_id,b.book_name,b.author,b.price
2  from book b
3  join detail d on d.book_id = b.book_id
4  group by b.book_id,b.book_name,b.author,b.price
5  having count(d.order_no) > 3
6  order by book_id
7
```

BOOK_ID	BOOK_NAME	AUTHOR	PRICE
10010	Cooking	Jarae Sukjai	80
20010	Travel World	Srisamorn	120
30010	Sleeping	Jarae Sukjai	150
30020	Nude Book	Udom Taepanitch	100
40030	Windows XP	Udom Taepanitch	130
50040	Star Magazine	Jarae Sukjai	130

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```
1  select c.cust_no,c.cust_name,c.address
2  from customer c
3  join order_head o on o.cust_no = c.cust_no
4  join detail d on d.order_no = o.order_no
5  join book b on d.book_id = b.book_id
6  group by c.cust_no,c.cust_name,c.address
7  having SUM(d.qty*b.price) > 5000
```

CUST_NO	CUST_NAME	ADDRESS
40006	Maliza Nuanpeng	Bangkok
40003	Kukiat Kompol	Bangkok
40009	Pornchai Saebae	Nontaburi
40001	Somchai Amuaychai	Bangkok
40005	Nattakan Wongsri	Nontaburi
40007	Sureerat Inmor	Patumtani

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17.


```sql
1  select s.sale_no,SUM(d.qty*b.price)
2  from sale s
3  join order_head o on o.sale_no = s.sale_no
4  join detail d on d.order_no = o.order_no
5  join book b on b.book_id = d.book_id
6  group by s.sale_no
7  order by sale_no
```

SALE_NO	SUM(D.QTY*B.PRICE)
11111	22870
22222	38095
33333	12360
44444	23820
55555	11090

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5 rows selected.

18.


```sql
1  select o.order_no,o.order_date,c.cust_no,c.cust_name
2  from order_head o
3  join customer c on c.cust_no = o.cust_no
4  join sale s on s.sale_no = o.sale_no
5  where s.sale_name = 'Prapan Kaewkar'
6  group by o.order_no,o.order_date,c.cust_no,c.cust_name
7
```

ORDER_NO	ORDER_DATE	CUST_NO	CUST_NAME
100002	21-JAN-03	40003	Kukiat Kompol
100003	21-JAN-03	40002	Ausa Wandee
100012	25-JAN-03	40007	Sureerat Inmor

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3 rows selected.