

1)

SELECT *

FROM(

SELECT shop.sh_id as sh_id,T.p as product_id,T.s as amount

FROM shop,product,(SELECT product.p_id as p,SUM(order_product.amount)as s

FROM order1,order_product,product

WHERE order1.orderState<>'failed' and order1.orderState<>'registered' and order1.or_id=order_product.order_id
and order_product.product_id=product.p_id

GROUP BY product.p_id)as T

WHERE shop.sh_id=product.sh_id and product.p_id=T.p

ORDER by shop.sh_id,T.s DESC)as X1,

(

SELECT shop.sh_id as sh_id,T.p as product_id,T.s as amount

FROM shop,product,(SELECT product.p_id as p,SUM(order_product.amount)as s

FROM order1,order_product,product

WHERE order1.orderState<>'failed' and order1.orderState<>'registered' and order1.or_id=order_product.order_id
and order_product.product_id=product.p_id

GROUP BY product.p_id)as T

WHERE shop.sh_id=product.sh_id and product.p_id=T.p

ORDER by shop.sh_id,T.s DESC)as X2,

(

SELECT shop.sh_id as sh_id,T.p as product_id,T.s as amount

FROM shop,product,(SELECT product.p_id as p,SUM(order_product.amount)as s

FROM order1,order_product,product

WHERE order1.orderState<>'failed' and order1.orderState<>'registered' and order1.or_id=order_product.order_id
and order_product.product_id=product.p_id

GROUP BY product.p_id)as T

WHERE shop.sh_id=product.sh_id and product.p_id=T.p

ORDER by shop.sh_id,T.s DESC)as X3

WHERE X1.sh_id=X2.sh_id and X1.sh_id=X3.sh_id and X1.amount>X2.amount and X2.amount>X3.amount

Show query box

Showing rows 0 - 13 (14 total, Query took 0.0126 seconds.)

SELECT * FROM(SELECT shop.sh_id as sh_id,T.p as product_id,T.s as amount FROM shop.product,(SELECT product.p_id as p,SUM(order_product.amount)as s FROM order1.order_product.product WHERE order1.orderState<>'failed' and order1.orderState<>'registered' and order1.order_id=order_product.order_id and order_product.product_id=product.p_id GROUP BY product.p_id)as T WHERE shop.sh_id=product.sh_id and product.p_id=T.p ORDER by shop.sh_id,T.s DESC)as X1, ((SELECT shop.sh_id as sh_id,T.p as product_id,T.s as amount FROM shop.product,(SELECT product.p_id as p,SUM(order_product.amount)as s FROM order1.order_product.product WHERE order1.orderState<>'failed' and order1.orderState<>'registered' and order1.order_id=order_product.order_id and order_product.product_id=product.p_id GROUP BY product.p_id)as T WHERE shop.sh_id=product.sh_id and product.p_id=T.p ORDER by shop.sh_id,T.s DESC)as X2, (SELECT shop.sh_id as sh_id,T.p as product_id,T.s as amount FROM shop.product,(SELECT product.p_id as p,SUM(order_product.amount)as s FROM order1.order_product.product WHERE order1.orderState<>'failed' and order1.orderState<>'registered' and order1.order_id=order_product.order_id and order_product.product_id=product.p_id GROUP BY product.p_id)as T WHERE shop.sh_id=product.sh_id and product.p_id=T.p ORDER by shop.sh_id,T.s DESC)as X3

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+ Options

sh_id	product_id	amount	sh_id	product_id	amount	sh_id	product_id	amount
sh1	p1	9	sh1	p4	5	sh1	p2	3
sh1	p1	9	sh1	p2	3	sh1	p3	2
sh1	p1	9	sh1	p4	5	sh1	p3	2
sh1	p4	5	sh1	p2	3	sh1	p3	2
sh1	p1	9	sh1	p2	3	sh1	p5	1
sh1	p1	9	sh1	p3	2	sh1	p5	1
sh1	p1	9	sh1	p4	5	sh1	p5	1
sh1	p2	3	sh1	p3	2	sh1	p5	1
sh1	p4	5	sh1	p2	3	sh1	p5	1
sh1	p4	5	sh1	p3	2	sh1	p5	1
sh2	p8	10	sh2	p6	5	sh2	p7	4
sh2	p6	5	sh2	p7	4	sh2	p9	3
sh2	p8	10	sh2	p6	5	sh2	p9	3
sh2	p8	10	sh2	p7	4	sh2	p9	3

2)

SELECT DISTINCT customer_phone.username,phoneNo

FROM order1 NATURAL JOIN customer_phone

WHERE order1.orderState='failed'

Showing rows 0 - 4 (5 total, Query took 0.0014 seconds.)

SELECT DISTINCT customer_phone.username,phoneNo FROM order1 NATURAL JOIN customer_phone WHERE order1.orderState='failed'

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username	phoneNo
cu1	88456700
cu1	44506679
cu2	22906732
cu3	66781527
cu4	33678524

3)

```
SELECT (i-j) as difference
FROM
(SELECT AVG(T.s) as i
FROM new_customer,order1,
(SELECT order1.or_id as o,SUM(order_product.amount*(price-discount)) as s
FROM order1,order_product,product
WHERE order1.orderState<>'failed' and order1.orderState<>'registered' and order1.or_id=order_product.order_id
and order_product.product_id=product.p_id
GROUP by order1.or_id)as T
WHERE new_customer.username=order1.username and order1.or_id=T.o)as X ,

(SELECT AVG(T.s)as j
FROM old_customer,order1,
(SELECT order1.or_id as o,SUM(order_product.amount*(price-discount)) as s
FROM order1,order_product,product
WHERE order1.orderState<>'failed' and order1.orderState<>'registered' and order1.or_id=order_product.order_id
and order_product.product_id=product.p_id
GROUP by order1.or_id)as T
WHERE old_customer.username=order1.username and order1.or_id=T.o)as Y
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0069 seconds.)

```
SELECT (i-j) as difference FROM (SELECT AVG(T.s)as i FROM new_customer,order1, (SELECT order1.or_id as o,SUM(order_product.amount*(price-discount)) as s FROM order1,order_product,product WHERE order1.orderState<>'failed' and order1.orderState<>'registered' and order1.or_id=order_product.order_id and order_product.product_id=product.p_id GROUP by order1.or_id)as T WHERE new_customer.username=order1.username and order1.or_id=T.o)as X , (SELECT AVG(T.s)as j FROM old_customer,order1, (SELECT order1.or_id as o,SUM(order_product.amount*(price-discount)) as s FROM order1,order_product,product WHERE order1.orderState<>'failed' and order1.orderState<>'registered' and order1.or_id=order_product.order_id and order_product.product_id=product.p_id GROUP by order1.or_id)as T WHERE old_customer.username=order1.username and order1.or_id=T.o)as Y
```

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difference

-39166.6667

4)

```
SELECT
deliveryman.d_id,deliveryman.firstName,deliveryman.lastName,deliveryman.phone_no,deliveryman.state,delivery
man.credit

FROM deliveryman ,(SELECT deliveryman.d_id as a,AVG(T.s) as b

FROM deliveryman,order1,(SELECT order_product.order_id as o,0.05*SUM(order_product.amount*(price-
discount))as s

FROM order1,order_product,product

WHERE order1.or_id=order_product.order_id and product.p_id=order_product.product_id and
order1.orderState<>'failed' and order1.orderState<>'registered'

GROUP by order_product.order_id) as T

WHERE deliveryman.d_id=order1.deliveryman_id and order1.or_id=T.o

GROUP by deliveryman.d_id

ORDER by AVG(T.s) DESC

LIMIT 1)as X

WHERE deliveryman.d_id=X.a
```

Show query box

Showing rows 0 - 0 (1 total, Query took 0.0053 seconds.)

```
SELECT deliveryman.d_id,deliveryman.firstName,deliveryman.lastName,deliveryman.phone_no,deliveryman.state,deliveryman.credit FROM deliveryman ,(SELECT deliveryman.d_id as a,AVG(T.s) as b FROM deliveryman,order1,(SELECT order_product.order_id as o,0.05*SUM(order_product.amount*(price-discount))as s FROM order1,order_product,product WHERE order1.or_id=order_product.order_id and product.p_id=order_product.product_id and order1.orderState<>'failed' and order1.orderState<>'registered' GROUP by order_product.order_id) as T WHERE deliveryman.d_id=order1.deliveryman_id and order1.or_id=T.o GROUP by deliveryman.d_id ORDER by AVG(T.s) DESC LIMIT 1)as X WHERE deliveryman.d_id=X.a
```

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	d_id	firstName	lastName	phone_no	state	credit
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	d5	Ehsan	Tabesh	66789021	free	40000

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5)

SELECT *

FROM shop

where sh_id NOT IN (SELECT DISTINCT a.sh_id

FROM shop as a,shop as b

WHERE (a.closeTime-a.openTime) < (b.closeTime-b.openTime));

Showing rows 0 - 0 (1 total, Query took 0.0026 seconds.)

```
SELECT * FROM shop where sh_id NOT IN ( SELECT DISTINCT a.sh_id FROM shop as a,shop as b WHERE (a.closeTime-a.openTime) < (b.closeTime-b.openTime))
```

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	sh_id	title	city	address	phone_no	manager_name	openTime	closeTime	credit
<input type="checkbox"/> Edit Copy Delete	sh1	vendor1	Tehran	Pasdaran	77337744	Asghari	07:00:00	19:00:00	1653000

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