

SQL HOMEWORK

Superstore Study Cases

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Case 1

Query Editor Query History

```
1  -- jawaban case 1
2  select count(distinct order_id) as total_delayed_order
3  from superstore_order
4  where ship_mode = 'Same Day' and order_date != ship_date
```

Data Output Explain Messages Notifications



| | total_delayed_order | |
|---|---------------------|--|
| | bigint | |
| 1 | 12 | |

Case 2

Query Editor Query History

```
6  -- jawaban case 2
7  select
8      avg(profit) as rata2_profit,
9      case when discount < 0.2 then 'LOW'
10         when discount >= 0.2 and discount < 0.4 then 'MEDIUM'
11         when discount >= 0.4 then 'HIGH'
12     end as level_discount
13 from superstore_order
14 group by level_discount
15 order by rata2_profit desc
```

Data Output Explain Messages Notifications

| |  rata2_profit double precision |  level_discount text | |
|---|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--|
| 1 | 67.0379797127831 | LOW | |
| 2 | 19.83556402454618 | MEDIUM | |
| 3 | -107.65201132572439 | HIGH | |

Case 3

Scratch Pad Query Editor Query History

```
16
17 -- jawaban case 3
18 select
19     p.category,
20     p.subcategory,
21     avg(o.discount) as rata2_discount,
22     avg(o.profit) as rata2_profit
23 from superstore_product as p
24 join superstore_order as o
25 on p.product_id = o.product_id
26 group by p.category, p.subcategory
27 order by p.category, avg(o.discount) desc
28
```

Data Output Explain Messages Notifications

| | category character varying | subcategory character varying | rata2_discount double precision | rata2_profit double precision |
|----|-------------------------------|----------------------------------|------------------------------------|----------------------------------|
| 1 | Furniture | Tables | 0.26128526645768047 | -55.56577147335423 |
| 2 | Furniture | Bookcases | 0.2111140350877193 | -15.230508771929834 |
| 3 | Furniture | Chairs | 0.17017828200972449 | 43.095893517017856 |
| 4 | Furniture | Furnishings | 0.13834900731452457 | 13.645918077324959 |
| 5 | Office Supplies | Binders | 0.3722915298752447 | 19.843574064346672 |
| 6 | Office Supplies | Appliances | 0.16652360515021464 | 38.9227583690987 |
| 7 | Office Supplies | Fasteners | 0.08202764976958511 | 4.375659907834099 |
| 8 | Office Supplies | Envelopes | 0.0803149606299211 | 27.41801850393702 |
| 9 | Office Supplies | Supplies | 0.0768421052631578 | -6.258418421052627 |
| 10 | Office Supplies | Paper | 0.07489051094890578 | 24.856619927007277 |
| 11 | Office Supplies | Art | 0.07487437185929686 | 8.200737437185929 |
| 12 | Office Supplies | Storage | 0.07470449172576875 | 25.152277068557904 |
| 13 | Office Supplies | Labels | 0.06868131868131852 | 15.236961538461534 |
| 14 | Technology | Machines | 0.30608695652173884 | 29.43266869565208 |
| 15 | Technology | Copiers | 0.16176470588235295 | 817.9091897058823 |
| 16 | Technology | Phones | 0.15455568053993343 | 50.07393768278964 |
| 17 | Technology | Accessories | 0.07845161290322622 | 54.111787999999905 |

Case 4

Scratch Pad Query Editor Query History

28

29 -- jawaban case 4

30 select distinct c.segment, sum(o.sales) as total_sales, avg(o.profit) as rata2_profit

31 from superstore_customer as c

32 join superstore_order as o

33 on c.customer_id = o.customer_id

34 where o.order_id like '%-2016-%' and c.state in ('California', 'Texas', 'Georgia')

35 group by c.segment

36 order by total_sales desc

37

Data Output Explain Messages Notifications

| | category character varying | subcategory character varying | rata2_discount double precision | rata2_profit double precision | |
|----|-------------------------------|----------------------------------|------------------------------------|----------------------------------|--|
| 1 | Furniture | Tables | 0.26128526645768047 | -55.56577147335423 | |
| 2 | Furniture | Bookcases | 0.211140350877193 | -15.230508771929834 | |
| 3 | Furniture | Chairs | 0.17017828200972449 | 43.095893517017856 | |
| 4 | Furniture | Furnishings | 0.13834900731452457 | 13.645918077324959 | |
| 5 | Office Supplies | Binders | 0.3722915298752447 | 19.843574064346672 | |
| 6 | Office Supplies | Appliances | 0.16652360515021464 | 38.9227583690987 | |
| 7 | Office Supplies | Fasteners | 0.08202764976958511 | 4.375659907834099 | |
| 8 | Office Supplies | Envelopes | 0.0803149606299211 | 27.41801850393702 | |
| 9 | Office Supplies | Supplies | 0.0768421052631578 | -6.258418421052627 | |
| 10 | Office Supplies | Paper | 0.07489051094890578 | 24.856619927007277 | |
| 11 | Office Supplies | Art | 0.07487437185929686 | 8.200737437185929 | |
| 12 | Office Supplies | Storage | 0.07470449172576875 | 25.152277068557904 | |
| 13 | Office Supplies | Labels | 0.06868131868131852 | 15.236961538461534 | |
| 14 | Technology | Machines | 0.30608695652173884 | 29.43266869565208 | |
| 15 | Technology | Copiers | 0.16176470588235295 | 817.9091897058823 | |
| 16 | Technology | Phones | 0.15455568053993343 | 50.07393768278964 | |
| 17 | Technology | Accessories | 0.07845161290322622 | 54.111787999999905 | |

Case 5

Scratch Pad Query Editor Query History

```
38 -- jawaban case 5
39 select
40     c.region,
41     count(pecinta_diskon.customer_id) as jumlah_org
42 from
43 (
44     select customer_id, avg(discount) as rata2_discount
45     from superstore_order
46     group by customer_id
47     having avg(discount) > 0.4
48     order by rata2_discount desc
49 ) as pecinta_diskon
50 join superstore_customer as c
51 on c.customer_id = pecinta_diskon.customer_id
52 group by c.region
```

Data Output Explain Messages Notifications

| | region character varying | jumlah_org bigint |
|---|-----------------------------|----------------------|
| 1 | South | 2 |
| 2 | West | 3 |
| 3 | East | 2 |
| 4 | Central | 2 |