

Praktikum 3 Sistem Basis Data 2023

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Kelas : G
RDBMS : MySQL
Link SQL :
<https://drive.google.com/file/d/1sMX96WbNH2n1w83wdCTjUlaQknJUlmOY/view?usp=sharing>
Kode Asdos : SBDG01
Sesi : PRAKTIKUM 3

Nomor 1

Sintaks:

```
SELECT idBarang, namaBarang, Stock - terbeli AS nilai_stock_terkini
FROM
(SELECT p.id AS idBarang, p.name AS namaBarang, COUNT(pc.quantity) AS
terbeli, p.stock AS Stock, pc.product_id
FROM products p
JOIN product_carts pc ON p.id = pc.product_id
JOIN carts c ON pc.cart_id = c.id
WHERE c.`status` = 'checkout'
GROUP BY
pc.product_id) hasil
GROUP BY
idBarang, namaBarang
```

Hasil:

The screenshot shows the HeidiSQL interface with a MySQL query executed against a database named 'praktikum3'. The query calculates the average time difference between feedback creation and order creation, and the average time difference between feedback creation and order creation, grouped by product ID.

```

1 #ini adalah praktikum sukses
2
3 #1 Hitunglah nilai stok terkini dari setiap produk dengan mempertimbangkan carts yang
4 -- telah di-checkout. Dengan asumsi bahwa nilai dalam kolom stok produk, merupakan
5 -- stok awal sebelum adanya data transaksi.
6 SELECT idbarang, namabarang, stock - terbeli AS nilai_stok_terkini
7 FROM
8 (SELECT p.id AS idbarang, p.name AS namabarang, COUNT(pc.quantity) AS terbeli, p.stock AS stock, pc.product_id
9 FROM products p
10 JOIN product_carts pc ON p.id = pc.product_id
11 JOIN carts c ON pc.cart_id = c.id
12 WHERE c.status = 'checkout'
13 GROUP BY
14 pc.product_id) hasil
15
16
17
18 #2 Hitunglah rata-rata jeda waktu antara waktu pemberian feedback dengan waktu
19 -- pembuatan order dari setiap order.
20 SELECT AVG(TIMESTAMPDIFF(DAY, o.created_at, f.created_at)) AS rata_rata_jeda_waktu_dalam_hari, AVG(TIMESTAMPDIFF(HOUR, o.created_at, f.created_at)) AS rata_rata_jeda_waktu_dalam_jam
21 FROM feedbacks f
22 JOIN feedback_orders fo ON f.id = fo.feedback_id
23 JOIN orders o ON fo.order_id = o.id
24
25 #3 Buat daftar produk yang memiliki stok kurang dari 5 dan telah terjual setidaknya sekali.
26 -- Tampilkan nama produk dan jumlah stok
27 SELECT idbarang, namabarang, stock, ada
28 FROM
29 (SELECT DISTINCT p.id AS idbarang, p.name AS namabarang, p.stock AS stock, pc.product_id AS ada
30 FROM products p
31 LEFT JOIN product_carts pc ON p.id = pc.product_id) hasil
32 GROUP BY
33 idbarang
34 HAVING
35 stock < 5

```

The results are displayed in a table with 3 columns: idbarang, namabarang, and nilai_stok_terkini.

idbarang	namabarang	nilai_stok_terkini
af23c5-1d05-11ee-833a-2a09fb34...	Original Bma Bread	6
af24b2-1d05-11ee-833a-2a09fb34...	Baguette Bread	2
af26517-1d05-11ee-833a-2a09fb34...	Black Bread	0
af26560-1d05-11ee-833a-2a09fb34...	Chocolate Brownies	1
af26777-1d05-11ee-833a-2a09fb34...	Cookies with Jam	4
af26835-1d05-11ee-833a-2a09fb34...	Croissant Bread	12

Nomor 2

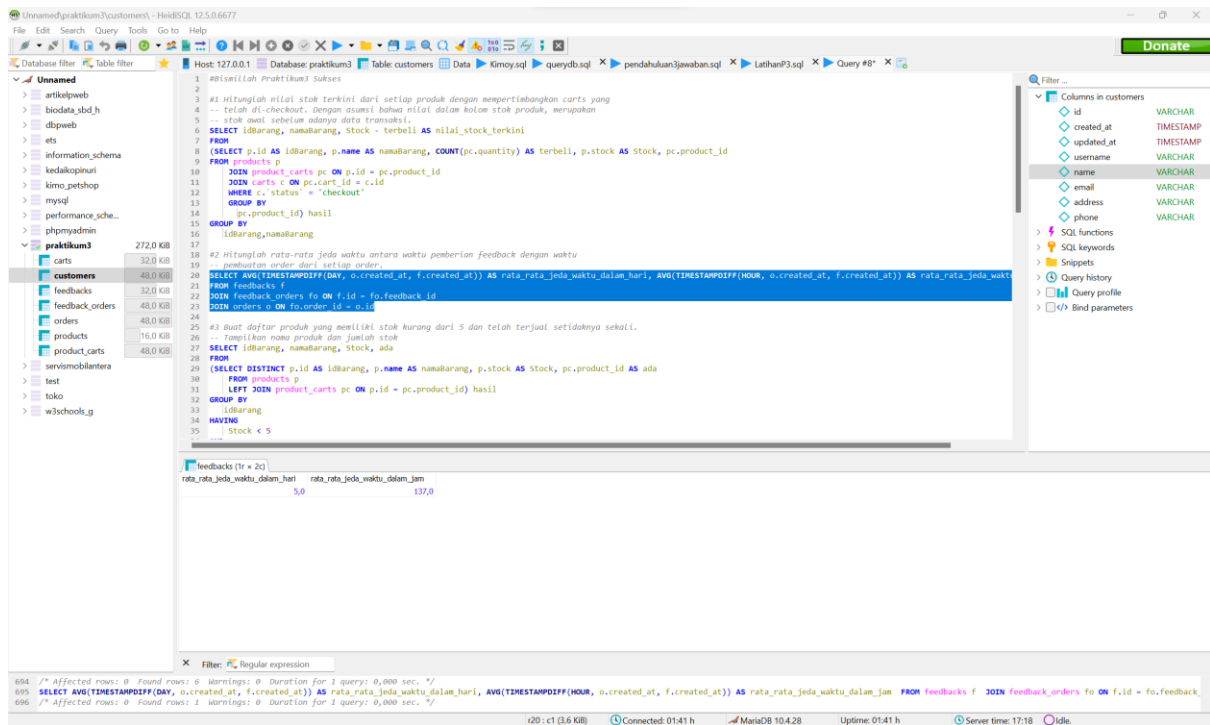
Sintaks:

```

SELECT AVG(TIMESTAMPDIFF(DAY, o.created_at, f.created_at)) AS
rata_rata_jeda_waktu_dalam_hari, AVG(TIMESTAMPDIFF(HOUR, o.created_at,
f.created_at)) AS rata_rata_jeda_waktu_dalam_jam
FROM feedbacks f
JOIN feedback_orders fo ON f.id = fo.feedback_id
JOIN orders o ON fo.order_id = o.id

```

Hasil:

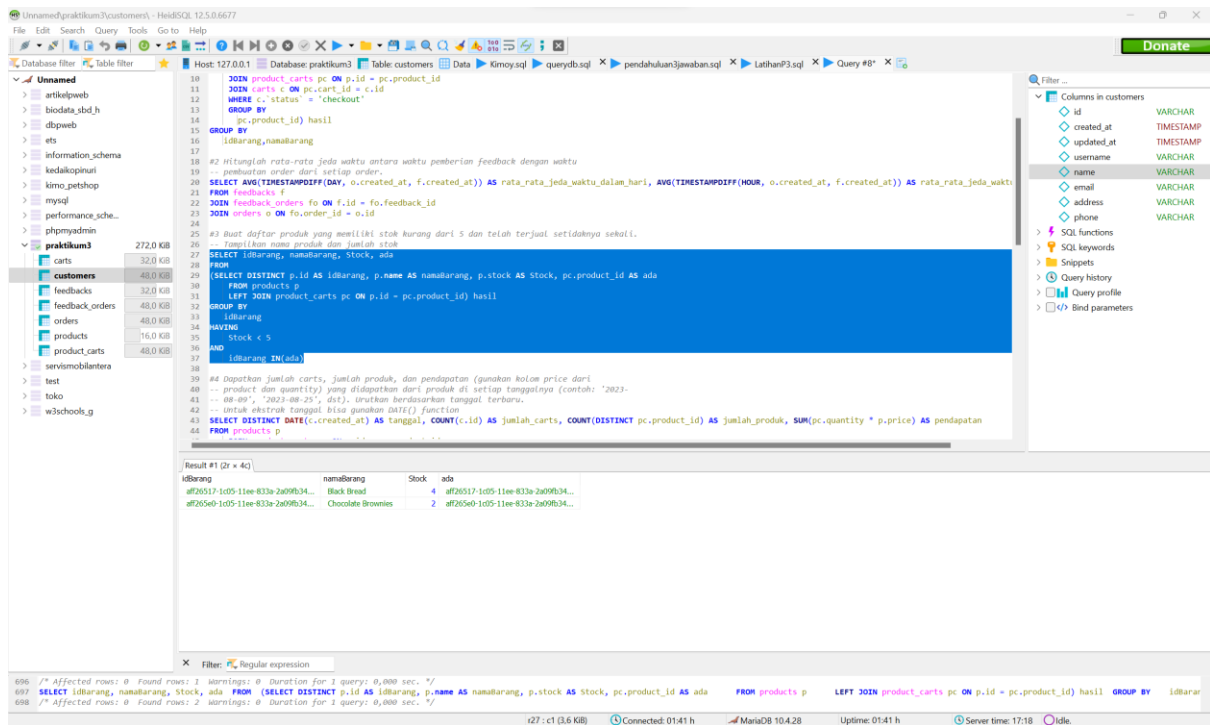


Nomor 3

Sintaks:

```
SELECT idBarang, namaBarang, Stock, ada
FROM
(SELECT DISTINCT p.id AS idBarang, p.name AS namaBarang, p.stock AS Stock,
pc.product_id AS ada
      FROM products p
      LEFT JOIN product_carts pc ON p.id = pc.product_id) hasil
GROUP BY
      idBarang
HAVING
      Stock < 5
AND
      idBarang IN(ada)
```

Hasil:



Nomor 4

Sintaks:

```

SELECT DISTINCT DATE(c.created_at) AS tanggal, COUNT(c.id) AS jumlah_carts,
COUNT(DISTINCT pc.product_id) AS jumlah_produk, SUM(pc.quantity * p.price)
AS pendapatan
FROM products p
    JOIN product_carts pc ON p.id = pc.product_id
    JOIN carts c ON pc.cart_id = c.id
GROUP BY
    tanggal

```

Hasil:

The screenshot shows the HeidiSQL interface with the following details:

- Database:** praktikum3
- Table:** customers
- SQL Query:**

```

SELECT DISTINCT p.id AS sudah_direview
FROM products p
JOIN product_carts pc ON p.id = pc.product_id
JOIN orders o ON pc.cart_id = o.cart_id
JOIN feedback_orders fo ON o.id = fo.order_id
JOIN feedbacks f ON fo.feedback_id = f.id
GROUP BY p.id) produk_direview ON p.id = sudah_direview
GROUP BY
    p.id

```
- Query Results Table:**

tanggal	jumlah_carts	jumlah_produk	pendapatan
2023-08-09	6	4	91.000
2023-08-10	2	2	22.000
2023-08-19	6	5	59.500
2023-08-25	3	3	31.000
2023-08-26	1	1	9.000

Nomor 5

Sintaks:

```

SELECT *
FROM products p
LEFT JOIN
(SELECT DISTINCT p.id AS sudah_direview
FROM products p
JOIN product_carts pc ON p.id = pc.product_id
JOIN orders o ON pc.cart_id = o.cart_id
JOIN feedback_orders fo ON o.id = fo.order_id
JOIN feedbacks f ON fo.feedback_id = f.id
GROUP BY p.id) produk_direview ON p.id = sudah_direview
GROUP BY
    p.id

```

Hasil:

```

57 -- yang dibutuhkan:
58 -- 1. ID Nama produk
59 -- 2. Informasi adanya Feedback
60 -- 3. Informasi tanggal keranjang
61
62 SELECT
63 FROM products p
64 LEFT JOIN
65 (SELECT DISTINCT p.id AS sudah_dirview
66 FROM products p
67 JOIN product_carts pc ON p.id = pc.product_id
68 JOIN orders o ON pc.cart_id = o.cart_id
69 JOIN feedbacks f ON o.feedback_id = f.id
70 GROUP BY p.id) produk_dirview ON p.id = sudah_dirview
71 GROUP BY
72 p.id
73 -- Hasil sudah_dirview = NULL;
74
75 -- 46 Tampilkan rata-rata total harga order yang telah tervalidasi
76 -- validated
77 SELECT SUM(total_price)/COUNT(id) Rata_rata_total_harga_order
78 FROM orders o
79 WHERE o.status = 'validated'
80
81 -- 47 Tampilkan customer, product, beserta jumlah product yang masuk dalam keranjang tiap
82 -- customer dalam status idle
83 SELECT cs.name, p.name, pc.quantity
84 FROM customers cs
85 JOIN carts c ON cs.id = c.customer_id
86 JOIN product_carts pc ON c.id = pc.cart_id
87 JOIN products p ON pc.product_id = p.id
88 WHERE c.status = 'idle'
89 GROUP BY
90 cs.name
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Nomor 6

Sintaks:

```

SELECT SUM(total_price)/COUNT(id) Rata_rata_total_harga_order
FROM orders o
WHERE o.status = 'validated'

```

Hasil:

```

60 -- 3. Informasi tanggal keranjang
61
62 SELECT *
63 FROM products p
64 LEFT JOIN
65 (SELECT DISTINCT p.id AS sudah_dirview
66 FROM products p
67 JOIN product_carts pc ON p.id = pc.product_id
68 JOIN orders o ON pc.cart_id = o.cart_id
69 JOIN feedbacks f ON o.feedback_id = f.id
70 GROUP BY p.id) produk_dirview ON p.id = sudah_dirview
71 GROUP BY
72 p.id
73 -- Hasil sudah_dirview = NULL;
74
75 -- 46 Tampilkan rata-rata total harga order yang telah tervalidasi
76 -- validated
77 SELECT SUM(total_price)/COUNT(id) Rata_rata_total_harga_order
78 FROM orders o
79 WHERE o.status = 'validated'
80
81 -- 47 Tampilkan customer, product, beserta jumlah product yang masuk dalam keranjang tiap
82 -- customer dalam status idle
83 SELECT cs.name, p.name, pc.quantity
84 FROM customers cs
85 JOIN carts c ON cs.id = c.customer_id
86 JOIN product_carts pc ON c.id = pc.cart_id
87 JOIN products p ON pc.product_id = p.id
88 WHERE c.status = 'idle'
89 GROUP BY
90 cs.name
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Nomor 7

Sintaks:

```
SELECT cs.name, p.name, pc.quantity
FROM customers cs
      JOIN carts c ON cs.id = c.customer_id
      JOIN product_carts pc ON c.id = pc.cart_id
      JOIN products p ON pc.product_id = p.id
WHERE c.`status` = 'idle'
GROUP BY
      cs.name
```

Hasil:

The screenshot shows a MySQL IDE interface. The main window displays a SQL query (lines 60-94) that joins the customers, carts, product_carts, and products tables to find the name of the customer who has an idle cart with a product. The query is as follows:

```
60 -- 1. Informasi tentang keranjang
61
62 SELECT
63 FROM products p
64 LEFT JOIN
65 (SELECT DISTINCT p.id AS sudah_direview
66 FROM products p
67 JOIN product_carts pc ON p.id = pc.product_id
68 JOIN orders o ON pc.cart_id = o.cart_id
69 JOIN feedback_orders fo ON o.id = fo.order_id
70 JOIN feedbacks f ON fo.feedback_id = f.id
71 GROUP BY p.id) produk_direview ON p.id = sudah_direview
72 GROUP BY
73 p.id
74 -- WHERE sudah_direview = NULL;
75
76 -- 2. Tampilkan rata-rata total harga order yang telah tervalidasi
77 -- validated
78 SELECT SUM(total_price)/COUNT(id) rata_rata_total_harga_order
79 FROM orders o
80 WHERE o.status = 'validated'
81
82 -- 3. Tampilkan customer, product, beserta jumlah product yang masuk dalam keranjang tiap
83 -- customer dalam status idle
84 SELECT cs.name, p.name, pc.quantity
85 FROM customers cs
86 JOIN carts c ON cs.id = c.customer_id
87 JOIN product_carts pc ON c.id = pc.cart_id
88 JOIN products p ON pc.product_id = p.id
89 WHERE c.`status` = 'idle'
90 GROUP BY
91 cs.name
92
93
94
```

The results window shows the following data:

name	quantity
Mochamad Rianza Kumawan	1

The status bar at the bottom indicates the connection is idle and the server time is 17:21.

Nomor 8

Sintaks:

Hasil:

Nomor 9

Sintaks:

Hasil:

Nomor 10

Sintaks:

Hasil: