

## LATIHAN PRAKTIKUM 5 SQL

Nama : Muhammad 'Azmi Salam  
NIM : 2406010  
Kelas : C2 - 2024

1. Gunakan semua JOIN (Inner join, left join, right join, dan full outer join) yang menampilkan minimal penggabungan 2 tabel (tabel yang digunakan bebas).Masukan data ke dalam tabel

a. INNER JOIN

```
SELECT b.id, p.nama_pelanggan, b.total_harga, b.status_booking  
FROM booking b  
INNER JOIN pelanggan p ON b.id_pelanggan = p.id;
```

```
+-----+-----+-----+-----+  
| id | nama_pelanggan | total_harga | status_booking |  
+-----+-----+-----+-----+  
| 1 | Budi Santoso | 300000 | Confirmed |  
| 2 | Ani Wijaya | 150000 | Pending |  
+-----+-----+-----+-----+  
2 rows in set (0.008 sec)  
  
MariaDB [gor]> |
```

b. LEFT JOIN

```
SELECT b.id, p.nama_pelanggan, b.total_harga, b.status_booking  
FROM booking b  
LEFT JOIN pelanggan p ON b.id_pelanggan = p.id;
```

```
+-----+-----+-----+-----+  
| id | nama_pelanggan | total_harga | status_booking |  
+-----+-----+-----+-----+  
| 1 | Budi Santoso | 300000 | Confirmed |  
| 2 | Ani Wijaya | 150000 | Pending |  
+-----+-----+-----+-----+  
2 rows in set (0.005 sec)  
  
MariaDB [gor]> |
```

c. RIGHT JOIN

```
SELECT b.id, p.nama_pelanggan, b.total_harga, b.status_booking  
FROM booking b  
RIGHT JOIN pelanggan p ON b.id_pelanggan = p.id;
```

```

+-----+-----+-----+-----+
| id | nama_pelanggan | total_harga | status_booking |
+-----+-----+-----+-----+
| 1 | Budi Santoso | 300000 | Confirmed |
| 2 | Ani Wijaya | 150000 | Pending |
+-----+-----+-----+-----+
2 rows in set (0.002 sec)

MariaDB [gor]>

```

#### d. FULL OUTER JOIN

```

SELECT b.id, p.nama_pelanggan, b.total_harga, b.status_booking
FROM booking b
LEFT JOIN pelanggan p ON b.id_pelanggan = p.id
UNION
SELECT b.id, p.nama_pelanggan, b.total_harga, b.status_booking
FROM booking b
RIGHT JOIN pelanggan p ON b.id_pelanggan = p.id;

```

```

+-----+-----+-----+-----+
| id | nama_pelanggan | total_harga | status_booking |
+-----+-----+-----+-----+
| 1 | Budi Santoso | 300000 | Confirmed |
| 2 | Ani Wijaya | 150000 | Pending |
+-----+-----+-----+-----+
2 rows in set (0.008 sec)

MariaDB [gor]> |

```

**2. Buatlah tabel baru bernama 'transaksi' dengan atribut sebagai berikut, dan masukkan data minimal 3:**

```

INSERT INTO transaksi (id_booking, id_pelanggan, id_barang, id_kegiatan,
status_pembayaran) VALUES
(1, 2, 4, 1, 'pending'),
(2, 1, 5, 2, 'lunas'),
(1, 1, 6, 2, 'batal');

```

```

MariaDB [gor]> SELECT * FROM transaksi;
+-----+-----+-----+-----+-----+-----+
| id | id_booking | id_pelanggan | id_barang | Id_kegiatan | Status_pembayaran |
+-----+-----+-----+-----+-----+-----+
| 7 | 1 | 2 | 4 | 1 | pending |
| 8 | 2 | 1 | 5 | 2 | lunas |
| 9 | 1 | 1 | 6 | 2 | batal |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)

MariaDB [gor]> |

```

### 3. Buatlah query sql agar menghasilkan output join yang diinginkan

```
SELECT id, id_pelanggan, total_harga,  
       (SELECT AVG(total_harga)  
        FROM booking b2  
        WHERE b2.id_pelanggan = b1.id_pelanggan  
          AND b2.id BETWEEN 3 AND 7) AS rata_rata_pendapatan_pelanggan,  
       SUM(total_harga) OVER (PARTITION BY id_pelanggan) AS  
total_pendapatan_pelanggan  
FROM booking b1  
WHERE id BETWEEN 3 AND 7  
ORDER BY id;
```

```
MariaDB [gor]> SELECT id, id_pelanggan, total_harga,  
->       (SELECT AVG(total_harga)  
->       FROM booking b2  
->       WHERE b2.id_pelanggan = b1.id_pelanggan  
->       AND b2.id BETWEEN 3 AND 7) AS rata_rata_pendapatan_pelanggan,  
->       SUM(total_harga) OVER (PARTITION BY id_pelanggan) AS total_pendapatan_pelanggan  
-> FROM booking b1  
-> WHERE id BETWEEN 3 AND 7  
-> ORDER BY id;
```

| id | id_pelanggan | total_harga | rata_rata_pendapatan_pelanggan | total_pendapatan_pelanggan |
|----|--------------|-------------|--------------------------------|----------------------------|
| 3  | 1            | 200000      | 225000.0000                    | 450000                     |
| 4  | 1            | 250000      | 225000.0000                    | 450000                     |
| 5  | 2            | 300000      | 216666.6667                    | 650000                     |
| 6  | 2            | 150000      | 216666.6667                    | 650000                     |
| 7  | 2            | 200000      | 216666.6667                    | 650000                     |

5 rows in set (0.004 sec)

```
MariaDB [gor]> |
```