

TUGAS PRAKTEK BASIS DATA

Modul ke-4



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PROGRAM STUDI TEKNIK INFORMATIKA

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```
MariaDB [(none)]> use pelanggan_wifi;  
Database changed
```

Mengaktifkan database

```
MariaDB [pelanggan_wifi]> DESC tagihan;
```

| Field | Type | Null | Key | Default | Extra |
|-------------------|-------------|------|-----|---------|-------|
| ID_tagihan | varchar(10) | NO | PRI | NULL | |
| Nama_pelanggan | varchar(50) | YES | | NULL | |
| Mata_uang | varchar(10) | YES | | NULL | |
| Jumlah_tagihan | varchar(20) | YES | | NULL | |
| Belum_bayar | varchar(20) | YES | | NULL | |
| Status_pembayaran | varchar(10) | YES | | NULL | |
| Cicilan | varchar(20) | YES | | NULL | |

```
7 rows in set (0.011 sec)
```

```
MariaDB [pelanggan_wifi]> DESC pembayaran;
```

| Field | Type | Null | Key | Default | Extra |
|-------------------|--------------|------|-----|---------|-------|
| ID_pelanggan | varchar(30) | NO | PRI | NULL | |
| ID_tagihan | varchar(30) | YES | | NULL | |
| Nama_pelanggan | varchar(50) | YES | | NULL | |
| Periode | varchar(20) | YES | | NULL | |
| Mata_uang | varchar(10) | YES | | NULL | |
| Jumlah_tagihan | varchar(20) | YES | | NULL | |
| Lokasi_pembayaran | varchar(100) | YES | | NULL | |
| Tanggal | varchar(30) | YES | | NULL | |
| Jam | varchar(15) | YES | | NULL | |

```
9 rows in set (0.012 sec)
```

Menampilkan struktur data pada tabel database yang telah dibuat

MariaDB [pelanggan_wifi]> SELECT * FROM Tagihan;

| ID_tagihan | Nama_pelanggan | Mata_uang | Jumlah_tagihan | Belum_bayar | Status_pembayaran | Cicilan |
|------------|----------------|-----------|----------------|-------------|-------------------|---------------|
| 0497 | Dina Safitri | IDR | Rp271.000 | 0 | Lunas | Bukan cicilan |
| 1001 | Andi Pratama | IDR | Rp278.000 | 0 | Lunas | Bukan cicilan |
| 1002 | Rini Anggraini | IDR | Rp285.000 | 0 | Lunas | Bukan cicilan |
| 1003 | Bayu Wijaya | IDR | Rp243.421 | 0 | Lunas | Bukan cicilan |
| 1007 | Maya Putri | IDR | Rp236.500 | 0 | Lunas | Bukan cicilan |
| 1008 | Faisal Rahman | IDR | Rp293.552 | 0 | Lunas | Bukan cicilan |
| 5500 | Dewi Lestari | IDR | Rp100.000 | 0 | Lunas | Bukan cicilan |
| 7221 | Hadi Santoso | IDR | Rp261.000 | 0 | Lunas | Bukan cicilan |
| 8102 | Agus Setiawan | IDR | Rp300.552 | 0 | Lunas | Bukan cicilan |
| 9450 | Sari Indah | IDR | Rp350.500 | 0 | Lunas | Bukan cicilan |

10 rows in set (0.000 sec)

MariaDB [pelanggan_wifi]> SELECT * FROM Pembayaran;

| ID_pelanggan | ID_tagihan | Nama_pelanggan | Periode | Mata_uang | Jumlah_tagihan | Lokasi_pembayaran | Tanggal | Jam |
|--------------|------------|----------------|-----------|-----------|----------------|-------------------------------------|-------------|----------|
| 2020001 | 1001 | Andi Pratama | Nov 2020 | IDR | Rp278.000 | Finnet Bank - Bank Negara Indonesia | 19-Nov-2020 | 08:51:42 |
| 2020002 | 1002 | Rini Anggraini | Okt 2020 | IDR | Rp285.000 | Finnet Bank - Bank Mandiri | 19-Okt-2020 | 07:50:50 |
| 2020003 | 1003 | Bayu Wijaya | Sep 2020 | IDR | Rp243.421 | Finnet Bank - Bank Mandiri | 17-Sep-2020 | 12:42:57 |
| 2020006 | 2345 | Adi Perdana | Mei 2020 | IDR | Rp200.000 | Finnet Bank - Bank Negara Indonesia | 17-Mei-2020 | 16:55:55 |
| 2020007 | 1007 | Maya Putri | Mei 2020 | IDR | Rp236.500 | Finnet Bank - Bank Rakyat Indonesia | 17-Apr-2020 | 10:22:50 |
| 2020008 | 1008 | Faisal Rahman | Mar 2020 | IDR | Rp293.552 | Finnet Bank - Bank Rakyat Indonesia | 16-Mar-2020 | 14:49:43 |
| 2020009 | 9450 | Sari Indah | Jan 2020 | IDR | Rp350.500 | BPP BPP PLS Penajam | 1-Feb-2020 | 10:30:27 |
| 2020010 | 1130 | Eka Surya | Mar 2020 | IDR | Rp288.000 | Finnet Bank - Bank Mandiri | 16-Mar-2020 | 14:49:43 |
| 2310076 | 7742 | Ilham Nugraha | Juli 2020 | IDR | Rp261.000 | BPP BPP PLS Penajam | 18-Agu-2020 | 10:30:27 |
| 3123400 | 3870 | Nia Damayanti | Des 2020 | IDR | Rp190.000 | Finnet Bank - Bank Rakyat Indonesia | 20-Mar-2020 | 00:49:43 |

10 rows in set (0.000 sec)

Menampilkan data record pada tabel database yang telah dibuat

MariaDB [pelanggan_wifi]> SELECT * FROM Tagihan INNER JOIN Pembayaran ON Tagihan.ID_tagihan = Pembayaran.ID_tagihan;

| ID_tagihan | Nama_pelanggan | Mata_uang | Jumlah_tagihan | Belum_bayar | Status_pembayaran | Cicilan | ID_pelanggan | ID_tagihan | Nama_pelanggan | Periode | Mata_uang | Jumlah_tagihan | Lokasi_pembayaran | Tanggal | Jam |
|------------|----------------|-----------|----------------|-------------|-------------------|---------------|--------------|------------|----------------|----------|-----------|----------------|-------------------------------------|-------------|----------|
| 1001 | Andi Pratama | IDR | Rp278.000 | 0 | Lunas | Bukan cicilan | 2020001 | 1001 | Andi Pratama | Nov 2020 | IDR | Rp278.000 | Finnet Bank - Bank Negara Indonesia | 19-Nov-2020 | 08:51:42 |
| 1002 | Rini Anggraini | IDR | Rp285.000 | 0 | Lunas | Bukan cicilan | 2020002 | 1002 | Rini Anggraini | Okt 2020 | IDR | Rp285.000 | Finnet Bank - Bank Mandiri | 19-Okt-2020 | 07:50:50 |
| 1003 | Bayu Wijaya | IDR | Rp243.421 | 0 | Lunas | Bukan cicilan | 2020003 | 1003 | Bayu Wijaya | Sep 2020 | IDR | Rp243.421 | Finnet Bank - Bank Mandiri | 17-Sep-2020 | 12:42:57 |
| 1007 | Maya Putri | IDR | Rp236.500 | 0 | Lunas | Bukan cicilan | 2020007 | 1007 | Maya Putri | Mei 2020 | IDR | Rp236.500 | Finnet Bank - Bank Rakyat Indonesia | 17-Apr-2020 | 10:22:50 |
| 1008 | Faisal Rahman | IDR | Rp293.552 | 0 | Lunas | Bukan cicilan | 2020008 | 1008 | Faisal Rahman | Mar 2020 | IDR | Rp293.552 | Finnet Bank - Bank Rakyat Indonesia | 16-Mar-2020 | 14:49:43 |
| 9450 | Sari Indah | IDR | Rp350.500 | 0 | Lunas | Bukan cicilan | 2020009 | 9450 | Sari Indah | Jan 2020 | IDR | Rp350.500 | BPP BPP PLS Penajam | 1-Feb-2020 | 10:30:27 |

6 rows in set (0.001 sec)

Menampilkan semua atribut tabel – INNER JOIN

MariaDB [pelanggan_wifi]> SELECT Tagihan.ID_tagihan, Tagihan.Jumlah_tagihan FROM Tagihan INNER JOIN Pembayaran ON Tagihan.ID_tagihan = Pembayaran.ID_tagihan WHERE Tagihan.ID_tagihan = '1003';

| ID_tagihan | Jumlah_tagihan |
|------------|----------------|
| 1003 | Rp243.421 |

1 row in set (0.000 sec)

Menampilkan data dengan ID_tagihan = “1003” – Filter Matching dengan 1 kondisi

MariaDB [pelanggan_wifi]> SELECT Tagihan.ID_tagihan, Tagihan.Jumlah_tagihan, Pembayaran>Nama_pelanggan, Pembayaran.Periode FROM Tagihan INNER JOIN Pembayaran ON Tagihan.ID_tagihan = Pembayaran.ID_tagihan WHERE Tagihan.ID_tagihan = '1001' OR Pembayaran>Nama_pelanggan = 'Bayu Wijaya';

| ID_tagihan | Jumlah_tagihan | Nama_pelanggan | Periode |
|------------|----------------|----------------|----------|
| 1001 | Rp278.000 | Andi Pratama | Nov 2020 |
| 1003 | Rp243.421 | Bayu Wijaya | Sep 2020 |

2 rows in set (0.000 sec)

Menampilkan data dengan ID_tagihan = “1001” dan Nama_pelanggan = “Bayu Wijaya” – Filter Matching dengan 2 kondisi