

# JOB SHEET 3

## MENGGUNAKAN QUERY HAVING UNTUK MELAKUKAKAN PROSES DATA BERNILAI WAKTU SUATU TABEL PADA MYSQL

### 1. Membuat Database Pinjam

```
MariaDB [(none)]> create database pinjam;  
Query OK, 1 row affected (0.001 sec)  
  
MariaDB [(none)]> Syahru RF
```

### 2. Membuat Tabel Pengarang

```
MariaDB [pinjam]> create table pengarang (  
  -> id_pengarang int (11) not null,  
  -> nama varchar (50),  
  -> primary key (id_pengarang));  
Query OK, 0 rows affected (0.258 sec)  
  
MariaDB [pinjam]> Syahru RF
```

### Tampilan Tabel Pengarang

```
MariaDB [pinjam]> desc pengarang;  
+-----+-----+-----+-----+-----+-----+  
| Field          | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| id_pengarang   | int(11)       | NO   | PRI | NULL    |       |  
| nama           | varchar(50)   | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
2 rows in set (0.023 sec)  
  
MariaDB [pinjam]> Syahru RF
```

### 3. Memasukkan Isi Tabel Pengarang

```
MariaDB [pinjam]> insert into pengarang values
-> ('1','R. H. Sianipar'),
-> ('2','Abdul Kadir'),
-> ('3','Jubilee Enterprise'),
-> ('4','Madcoms'),
-> ('5','Ricky Rachmanto & Grafisku Studio');
Query OK, 5 rows affected (0.016 sec)
Records: 5  Duplicates: 0  Warnings: 0

MariaDB [pinjam]> Syahru RF
```

### Tampilan Isi Tabel Pengarang

```
MariaDB [pinjam]> select * from pengarang;
+-----+-----+
| id_pengarang | nama                               |
+-----+-----+
| 1            | R. H. Sianipar                    |
| 2            | Abdul Kadir                        |
| 3            | Jubilee Enterprise                 |
| 4            | Madcoms                           |
| 5            | Ricky Rachmanto & Grafisku Studio |
+-----+-----+
5 rows in set (0.003 sec)

MariaDB [pinjam]> Syahru RF
```

#### 4. Membuat Tabel Penerbit

```
MariaDB [pinjam]> create table penerbit (  
  -> id_penerbit int (11) not null,  
  -> nama varchar (50),  
  -> primary key (id_penerbit));  
Query OK, 0 rows affected (0.514 sec)  
  
MariaDB [pinjam]> Syahru RF
```

#### Tampilan Tabel Penerbit

```
MariaDB [pinjam]> desc penerbit;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| id_penerbit | int(11)       | NO   | PRI | NULL    |       |  
| nama       | varchar(50)   | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
2 rows in set (0.021 sec)  
  
MariaDB [pinjam]> Syahru RF
```

5. Memasukkan Isi Tabel Penerbit

```
MariaDB [pinjam]> insert into penerbit values
-> ('1','Andi Publisher'),
-> ('2','Informatika'),
-> ('3','PT. Elex Media Komputindo'),
-> ('4','Jubile'),
-> ('5','Lokomedia');
Query OK, 5 rows affected (0.008 sec)
Records: 5  Duplicates: 0  Warnings: 0

MariaDB [pinjam]> Syahru RF
```

Tampilan Isi Tabel Penerbit

```
MariaDB [pinjam]> select * from penerbit;
+-----+-----+
| id_penerbit | nama                               |
+-----+-----+
|          1 | Andi Publisher                    |
|          2 | Informatika                       |
|          3 | PT. Elex Media Komputindo         |
|          4 | Jubile                            |
|          5 | Lokomedia                         |
+-----+-----+
5 rows in set (0.000 sec)

MariaDB [pinjam]> Syahru RF
```



6. Membuat Tabel Buku

```
MariaDB [pinjam]> create table buku (  
  -> id_buku int (11) not null,  
  -> judul varchar (50),  
  -> id_penerbit int (11),  
  -> id_pengarang int (11),  
  -> tgl_terbit date,  
  -> harga int (11),  
  -> stok int (11),  
  -> primary key (id_buku));  
Query OK, 0 rows affected (0.148 sec)  
  
MariaDB [pinjam]> Syahru RF
```

Menambah Foreign Key Pada Tabel Buku

```
MariaDB [pinjam]> alter table buku  
  -> add foreign key (id_penerbit) references penerbit (id_penerbit)  
  -> on update cascade on delete cascade,  
  -> add foreign key (id_pengarang) references pengarang (id_pengarang)  
  -> on update cascade on delete cascade;  
Query OK, 0 rows affected (0.196 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
MariaDB [pinjam]> Syahru RF
```

Tampilan Tabel Buku

```
MariaDB [pinjam]> desc buku;  
  
+-----+-----+-----+-----+-----+-----+  
| Field          | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| id_buku        | int(11)       | NO   | PRI | NULL    |       |  
| judul          | varchar(50)   | YES  |     | NULL    |       |  
| id_penerbit    | int(11)       | YES  | MUL | NULL    |       |  
| id_pengarang   | int(11)       | YES  | MUL | NULL    |       |  
| tgl_terbit     | date          | YES  |     | NULL    |       |  
| harga          | int(11)       | YES  |     | NULL    |       |  
| stok           | int(11)       | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
7 rows in set (0.016 sec)  
  
MariaDB [pinjam]> Syahru RF
```

## 7. Memasukkan Isi Tabel Buku

```
MariaDB [pinjam]> insert into buku values
-> ('1','Pemrograman Database Menggunakan MySQL','1','1','2022-08-10','59000','5'),
-> ('2','PHP dan MySQL Langkah Demi Langkah + CD','1','1','2022-08-10','75000','6'),
-> ('3','MySQL Untuk Pemula','3','4','2022-08-10','34800','2'),
-> ('4','Kumpulan Aplikasi PHP Untuk Pemula','3','4','2022-08-10','34800','3'),
-> ('5','Mahir Dalam 7 Hari : Coreldraw X8','4','1','2022-08-10','70000','4');
Query OK, 5 rows affected (0.012 sec)
Records: 5 Duplicates: 0 Warnings: 0

MariaDB [pinjam]> Syahru RF
```

## Tampilan Isi Tabel Buku

```
MariaDB [pinjam]> select * from buku;
```

id_buku	judul	id_penerbit	id_pengarang	tgl_terbit	harga	stok
1	Pemrograman Database Menggunakan MySQL	1	1	2022-08-10	59000	5
2	PHP dan MySQL Langkah Demi Langkah + CD	1	1	2022-08-10	75000	6
3	MySQL Untuk Pemula	3	4	2022-08-10	34800	2
4	Kumpulan Aplikasi PHP Untuk Pemula	3	4	2022-08-10	34800	3
5	Mahir Dalam 7 Hari : Coreldraw X8	4	1	2022-08-10	70000	4

```
5 rows in set (0.001 sec)

MariaDB [pinjam]> Syahru RF
```

## 8. Perintah HAVING

```
MariaDB [pinjam]> select
-> judul,
-> harga,
-> round (0.1 * harga) AS diskon,
-> harga - round (harga * 0.1) AS harga_diskon
-> from buku
-> having harga_diskon > 50000;
```

judul	harga	diskon	harga_diskon
Pemrograman Database Menggunakan MySQL	59000	5900	53100
PHP dan MySQL Langkah Demi Langkah + CD	75000	7500	67500
Mahir Dalam 7 Hari : Coreldraw X8	70000	7000	63000

3 rows in set (0.018 sec)

MariaDB [pinjam]> Syahru RF

## 9. Perintah WHERE

```
MariaDB [pinjam]> select
-> judul,
-> harga,
-> round (0.1 * harga) AS diskon,
-> harga - round (harga * 0.1) AS harga_diskon
-> from buku
-> where harga - round (harga * 0.1) > 50000;
```

judul	harga	diskon	harga_diskon
Pemrograman Database Menggunakan MySQL	59000	5900	53100
PHP dan MySQL Langkah Demi Langkah + CD	75000	7500	67500
Mahir Dalam 7 Hari : Coreldraw X8	70000	7000	63000

3 rows in set (0.002 sec)

MariaDB [pinjam]> Syahru RF

## 10. Perintah GROUP BY

```
MariaDB [pinjam]> select id_penerbit, COUNT(judul) AS jumlah_buku FROM buku
-> GROUP BY id_penerbit
-> HAVING jumlah_buku < 3;
```

id_penerbit	jumlah_buku
1	2
3	2
4	1

3 rows in set (0.014 sec)

MariaDB [pinjam]> Syahru RF