

LAPORAN PRAKTIKUM PEMROGRAMAN BASIS DATA

PERTEMUAN PRAKTIKUM KE-[1]

Overview Basis Data



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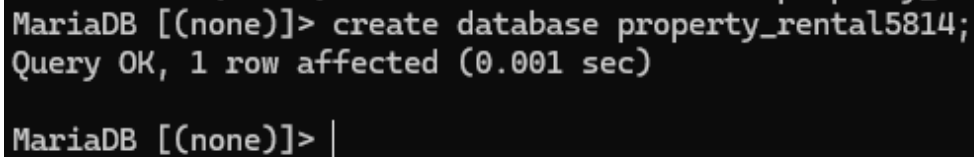
2024/2025

Overview Basis Data

1. Buat basis data dengan nama property_rental

Jawab:

```
Create database property_rental5814;
```



```
MariaDB [(none)]> create database property_rental5814;  
Query OK, 1 row affected (0.001 sec)  
  
MariaDB [(none)]> |
```

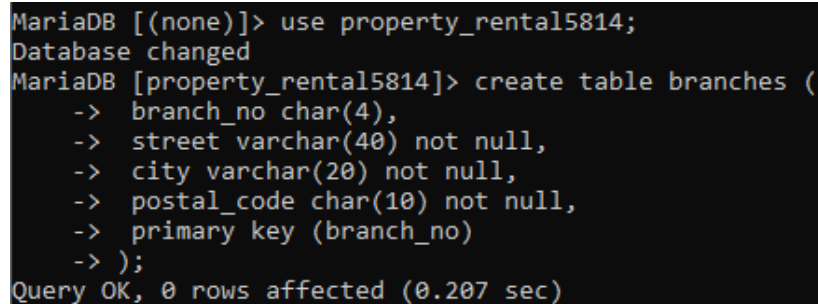
Keterangan: sematkan screenshot seperti ini (rata tengah)

Narasi (penjelasan tentang query dalam kotak).

2. Buat tabel dengan nama: branches

Jawab:

```
create table branches (  
  branch_no char(4),  
  street varchar(40) not null,  
  city varchar(20) not null,  
  postal_code char(10) not null,  
  primary key (branch_no)  
);
```



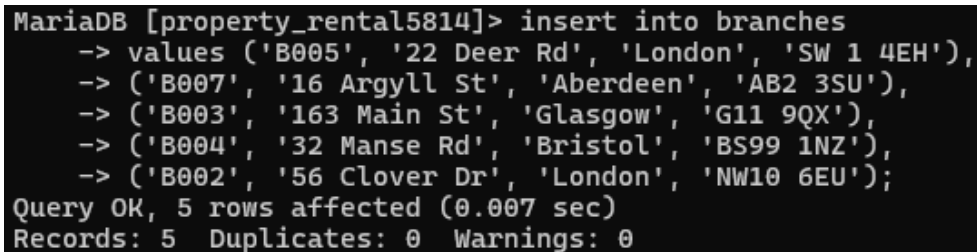
```
MariaDB [(none)]> use property_rental5814;  
Database changed  
MariaDB [property_rental5814]> create table branches (  
  -> branch_no char(4),  
  -> street varchar(40) not null,  
  -> city varchar(20) not null,  
  -> postal_code char(10) not null,  
  -> primary key (branch_no)  
  -> );  
Query OK, 0 rows affected (0.207 sec)
```

Keterangan: sematkan screenshot seperti ini (rata tengah)

3. Isi tabel branches sebagaimana baris data pada table berikut

Jawab:

```
insert into branches
values ('B005', '22 Deer Rd', 'London', 'SW 1 4EH'),
('B007', '16 Argyll St', 'Aberdeen', 'AB2 3SU'),
('B003', '163 Main St', 'Glasgow', 'G11 9QX'),
('B004', '32 Manse Rd', 'Bristol', 'BS99 1NZ'),
('B002', '56 Clover Dr', 'London', 'NW10 6EU');
```



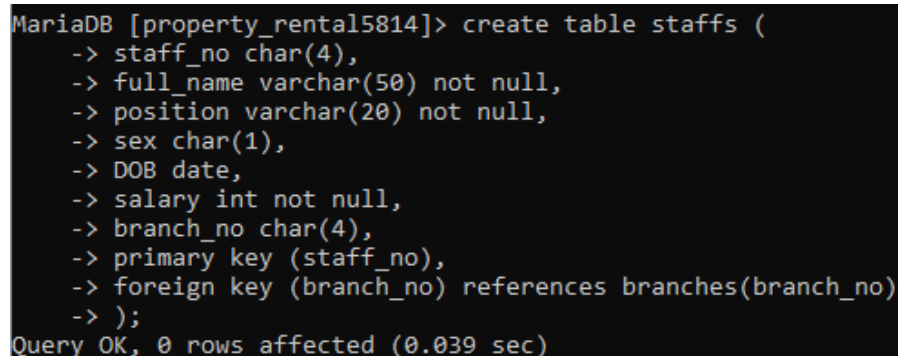
```
MariaDB [property_rental5814]> insert into branches
-> values ('B005', '22 Deer Rd', 'London', 'SW 1 4EH'),
-> ('B007', '16 Argyll St', 'Aberdeen', 'AB2 3SU'),
-> ('B003', '163 Main St', 'Glasgow', 'G11 9QX'),
-> ('B004', '32 Manse Rd', 'Bristol', 'BS99 1NZ'),
-> ('B002', '56 Clover Dr', 'London', 'NW10 6EU');
Query OK, 5 rows affected (0.007 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

Keterangan: sematkan screenshot seperti ini (rata tengah)

4. Buat table dengan nama: staffs

Jawab:

```
create table staffs (
  staff_no char(4),
  full_name varchar(50) not null,
  position varchar(20) not null,
  sex char(1),
  DOB date,
  salary int not null,
  branch_no char(4),
  primary key (staff_no),
  foreign key (branch_no) references branches(branch_no)
);
```



```
MariaDB [property_rental5814]> create table staffs (
-> staff_no char(4),
-> full_name varchar(50) not null,
-> position varchar(20) not null,
-> sex char(1),
-> DOB date,
-> salary int not null,
-> branch_no char(4),
-> primary key (staff_no),
-> foreign key (branch_no) references branches(branch_no)
-> );
Query OK, 0 rows affected (0.039 sec)
```

Keterangan: sematkan screenshot seperti ini (rata tengah)

5. Isi table staffs sebagaimana baris data pada table berikut ini:

Jawab:

```
insert into staffs values
('SL21', 'Jhon White', 'Manager', 'M', '1-Oct-45', '30000',
'B005'),
('SG37', 'Ann Beech', 'Assistant', 'F', '10-Nov-60', '12000',
'B003'),
('SG14', 'David Ford', 'Supervisor', 'M', '24-Mar-58',
'18000', 'B003');
```

```
MariaDB [property_rental5814]> insert into staffs values
-> ('SL21', 'Jhon White', 'Manager', 'M', '1-Oct-45', '30000', 'B005'),
-> ('SG37', 'Ann Beech', 'Assistant', 'F', '10-Nov-60', '12000', 'B003'),
-> ('SG14', 'David Ford', 'Supervisor', 'M', '24-Mar-58', '18000', 'B003');
Query OK, 3 rows affected, 3 warnings (0.003 sec)
Records: 3 Duplicates: 0 Warnings: 3
```

Keterangan: sematkan screenshot seperti ini (rata tengah)

6. Buat tabel baru dengan nama: private_owners

Jawab:

```
create table private_owners (
  owner_no char(4),
  full_name varchar(50) not null,
  address varchar(50),
  phone char(15),
  email varchar(20) not null,
  password text not null,
  primary key (owner_no)
);
```

```
MariaDB [property_rental5814]> create table private_owners (
-> owner_no char(4),
-> full_name varchar(50) not null,
-> address varchar(50),
-> phone char(15),
-> email varchar(20) not null,
-> password text not null,
-> primary key (owner_no)
-> );
Query OK, 0 rows affected (0.011 sec)
```

Keterangan: sematkan screenshot seperti ini (rata tengah)

7. Buat table baru dengan nama: properties

Jawab:

```
create table properties (  
  property_no char(10),  
  street varchar(30) not null,  
  city varchar(20),  
  postal_code char(10),  
  type varchar(10) not null,  
  rooms int not null,  
  rent int not null,  
  primary key (property_no),  
  owner_no char(4),  
  staff_no char(4),  
  branch_no char(4),  
  foreign key (owner_no) references private_owners(owner_no),  
  foreign key (staff_no) references staffs(staff_no),  
  foreign key (branch_no) references branches(branch_no)  
);
```

```
MariaDB [property_rental5814]> create table properties (  
  -> property_no char(10),  
  -> street varchar(30) not null,  
  -> city varchar(20),  
  -> postal_code char(10),  
  -> type varchar(10) not null,  
  -> rooms int not null,  
  -> rent int not null,  
  -> primary key (property_no),  
  -> owner_no char(4),  
  -> staff_no char(4),  
  -> branch_no char(4),  
  -> foreign key (owner_no) references private_owners(owner_no),  
  -> foreign key (staff_no) references staffs(staff_no),  
  -> foreign key (branch_no) references branches(branch_no)  
  -> );  
Query OK, 0 rows affected (0.006 sec)
```

Keterangan: sematkan screenshot seperti ini (rata tengah)

8. Tampilkan deskripsi tabel private_owner

Jawab:

```
describe private_owners;
```

```
MariaDB [property_rental5814]> describe private_owners;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| owner_no   | char(4)    | NO   | PRI | NULL    |       |
| full_name  | varchar(50)| NO   |     | NULL    |       |
| address    | varchar(50)| YES  |     | NULL    |       |
| phone      | char(15)   | YES  |     | NULL    |       |
| email      | varchar(20)| NO   |     | NULL    |       |
| password   | text       | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.002 sec)
```

Keterangan: sematkan screenshot seperti ini (rata tengah)

9. Tampilkan seluruh isi tabel staffs

Jawab:

```
select * from staffs;
```

```
MariaDB [property_rental5814]> select * from staffs;
+-----+-----+-----+-----+-----+-----+-----+
| staff_no | full_name | position | sex | DOB       | salary | branch_no |
+-----+-----+-----+-----+-----+-----+-----+
| SG14     | David Ford | Supervisor | M   | 0000-00-00 | 18000  | B003      |
| SG37     | Ann Beech | Assistant  | F   | 0000-00-00 | 12000  | B003      |
| SL21     | Jhon White | Manager   | M   | 0000-00-00 | 30000  | B005      |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

Keterangan: sematkan screenshot seperti ini (rata tengah)

10. Tampilkan kolom branch_no dan city dari tabel branches

Jawab:

```
select branch_no, city from branches;
```

```
MariaDB [property_rental5814]> select branch_no, city from branches;
+-----+-----+
| branch_no | city |
+-----+-----+
| B002      | London |
| B003      | Glasgow |
| B004      | Bristol |
| B005      | London |
| B007      | Aberdeen |
+-----+-----+
5 rows in set (0.000 sec)
```

Keterangan: sematkan screenshot seperti ini (rata tengah)

11. Hapus basis data property_rental

Jawab:

```
drop database property_rental5814
```

```
MariaDB [property_rental5814]> drop database property_rental5814;
Query OK, 3 rows affected (0.015 sec)

MariaDB [(none)]> _
```

Keterangan: sematkan screenshot seperti ini (rata tengah)