

11/20/2024

# BASIS DATA

## PERTEMUAN VIII

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KELAS: TI – 23 – PA (LAB 2)

Tugas Pertemuan Ke-8  
ROUTINE

Github: [https://github.com/Rifandy232310001TeknologiInformasi/Basis\\_Data-Lab](https://github.com/Rifandy232310001TeknologiInformasi/Basis_Data-Lab)

Soal nomor 1

**SQL untuk membuat database bank:**

sql

Salin kode

```
CREATE DATABASE bank;
```

```
USE bank;
```

**Membuat tabel nasabah dan mengisinya:**

sql

Salin kode

```
CREATE TABLE nasabah (
```

```
    id_nasabah INT PRIMARY KEY AUTO_INCREMENT,
```

```
    nama VARCHAR(100),
```

```
    alamat TEXT,
```

```
    no_telepon VARCHAR(15)
```

```
);
```

```
INSERT INTO nasabah (nama, alamat, no_telepon)
```

```
VALUES
```

```
('John Doe', 'Jalan Mawar No.1', '081234567890'),
```

```
('Jane Smith', 'Jalan Melati No.2', '081298765432');
```

**Membuat tabel pegawai dan mengisinya:**

sql

Salin kode

```
CREATE TABLE pegawai (  
  
    id_pegawai INT PRIMARY KEY AUTO_INCREMENT,  
  
    nama VARCHAR(100),  
  
    jabatan VARCHAR(50),  
  
    gaji DECIMAL(10,2)  
  
);
```

```
INSERT INTO pegawai (nama, jabatan, gaji)  
  
VALUES  
  
('Alice', 'Manager', 12000000.00),  
  
('Bob', 'Staff', 7000000.00);
```

#### **Membuat tabel rekening dan mengisinya:**

sql

Salin kode

```
CREATE TABLE rekening (  
  
    id_rekening INT PRIMARY KEY AUTO_INCREMENT,  
  
    id_nasabah INT,  
  
    saldo DECIMAL(15,2),  
  
    FOREIGN KEY (id_nasabah) REFERENCES nasabah(id_nasabah)  
  
);
```

```
INSERT INTO rekening (id_nasabah, saldo)  
  
VALUES  
  
(1, 5000000.00),  
  
(2, 7500000.00);
```

### **Membuat tabel transaksi dan mengisinya:**

sql

Salin kode

```
CREATE TABLE transaksi (  
    id_transaksi INT PRIMARY KEY AUTO_INCREMENT,  
    id_rekening INT,  
    tanggal DATE,  
    FOREIGN KEY (id_rekening) REFERENCES rekening(id_rekening)  
);
```

```
INSERT INTO transaksi (id_rekening, tanggal)
```

```
VALUES
```

```
(1, '2024-11-18'),
```

```
(2, '2024-11-19');
```

### **Membuat tabel transaksi\_detail dan mengisinya:**

sql

Salin kode

```
CREATE TABLE transaksi_detail (  
    id_detail INT PRIMARY KEY AUTO_INCREMENT,  
    id_transaksi INT,  
    jenis_transaksi VARCHAR(50),  
    jumlah_transaksi DECIMAL(15,2),  
    FOREIGN KEY (id_transaksi) REFERENCES transaksi(id_transaksi)  
);
```

```
INSERT INTO transaksi_detail (id_transaksi, jenis_transaksi, jumlah_transaksi)
VALUES
(1, 'Setoran', 2000000.00),
(2, 'Penarikan', 1500000.00);
```

Soal nomor 2

```
CREATE USER 'admin_bank'@'%' IDENTIFIED BY 'm@ut4uaja'; GRANT SELECT ON bank.nasabah
TO 'admin_bank'@'%';
```

Soal nomor 3

```
GRANT UPDATE (alamat) ON bank.nasabah TO 'admin_bank'@'%';
```

Soal nomor 4

```
GRANT SELECT (jenis_transaksi, jumlah_transaksi), UPDATE (jenis_transaksi, jumlah_transaksi)
ON bank.transaksi_detail TO 'admin_bank'@'%';
```

Soal nomor 5

```
GRANT DELETE ON bank.rekening TO 'admin_user'@'%';
```

Soal nomor 6

```
CREATE USER 'teller_user'@'%' IDENTIFIED BY 'secure1234';
GRANT SELECT ON bank.nasabah TO 'teller_user'@'%';
GRANT SELECT ON bank.rekening TO 'teller_user'@'%';
```

Soal nomor 7

```
GRANT UPDATE (saldo) ON bank.rekening TO 'teller_user'@'%';
```

Soal nomor 8

```
CREATE USER 'input_user'@'%' IDENTIFIED BY 'secure1234';
```

```
GRANT INSERT ON bank.transaksi TO 'input_user'@'%';
```

Soal nomor 9

```
CREATE USER 'admin_user'@'%' IDENTIFIED BY 'securepass123';
```

```
GRANT ALL PRIVILEGES ON *.* TO 'admin_user'@'%';
```

Soal nomor 10

```
CREATE USER 'user_routine'@'%' IDENTIFIED BY 'routinepass123';
```

```
GRANT EXECUTE ON PROCEDURE bank.* TO 'user_routine'@'%';
```

```
GRANT CREATE ROUTINE ON bank.* TO 'user_routine'@'%';
```

```
GRANT ALTER ROUTINE ON bank.* TO 'user_routine'@'%';
```