# TUGAS 4 SQL DDL

# Latihan (.ppt halaman 20):

1. Dengan SQL Query, buat table baru "buku" dengan struktur sebagai berikut:

```
kode_buku varchar2(3);
judul_buku varchar2(20);
pengarang varchar2(10);
penerbit varchar2 (20);
th terbit number(4);
```

- 2. Ubah struktur table diatas untuk ukuran (size) kolom pengarang menjadi 15.
- 3. Tambahkan kolom baru:

```
jumlah_buku number(2);
harga_buku number(7,2);
```

4. Hapus kolom harga buku.

#### Jawaban:

1. Syntax:

```
mysql> create table if not exists buku(
    -> kode_buku varchar(3) primary key,
    -> judull_buku varchar(20),
    -> pengarang varchar(10),
    -> penerbit varchar(20),
    -> th_terbit int(4)
    -> );
Query OK, 0 rows affected
```

## Output:

### 2. Syntax:

```
mysql> alter table buku modify pengarang varchar(15);
Query OK, 0 rows affected
Records: 0 Duplicates: 0 Warnings: 0
```

#### Output:

| Field      | 1 | Type        | 1 | Null | 1 | Key | 1 | Default | 1 | Extra |
|------------|---|-------------|---|------|---|-----|---|---------|---|-------|
| kode buku  | 1 | varchar(3)  | 1 | NO   | 1 | PRI | i | NULL    | 1 |       |
| judul buku | 1 | varchar(20) | 1 | YES  | 1 |     | 1 | NULL    | 1 |       |
| pengarang  | 1 | varchar(15) | 1 | YES  | 1 |     | 1 | NULL    | 1 |       |
| penerbit   | 1 | varchar(20) | 1 | YES  | 1 |     | 1 | NULL    | 1 |       |
| th terbit  | 1 | int (4)     | 1 | YES  | 1 |     | 1 | NULL    | 1 |       |

## 3. Syntax:

```
mysql> alter table buku add (
jumlah_buku int(2), harga_buku int(7));
Query OK, 0 rows affected
Records: 0 Duplicates: 0 Warnings: 0
```

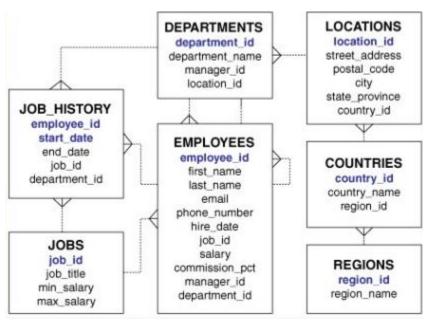
## Output:

# 4. Syntax:

```
mysql> alter table buku
drop harga_buku;
Query OK, 0 rows affected
Records: 0 Duplicates: 0 Warnings: 0
```

## Output:

# Latihan (.ppt halaman 21)



#### Soal

Perhatikan skema database Company di halaman berikutnya, buat perintah SQL untuk:

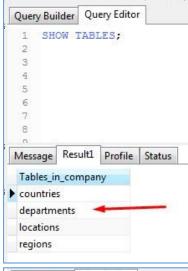
- 1. Membuat tabel departments dan locations (lengkap dengan constraint PK & FK).
- 2. Menambah kolom baru "Fields" pada tabel Departments (tipe data dan panjang bebas).
- 3. Melakukan pengubahan panjang kolom Fields dari panjang sebelumnya.
- 4. Menghapus Kolom Fields yang telah dibuat sebelumnya.

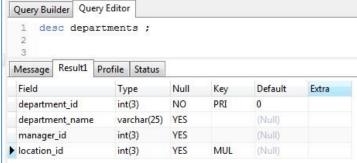
#### Jawaban

#### 1. Syntax:

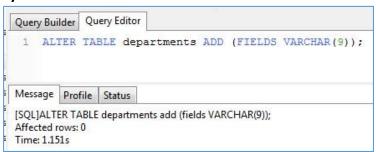
```
Query Builder Query Editor
 1 CREATE TABLE
2 □IF NOT EXISTS departments (
     department id INT (3),
      department_name VARCHAR (25),
 5
      manager id INT (3),
      location id INT (3),
 6
      CONSTRAINT PK_department_id PRIMARY KEY (department_id),
       CONSTRAINT FK location id FOREIGN KEY (location id) REFERENCES locations (location_id)
 8
 9 L);
Message Profile Status
[SQL]CREATE TABLE
IF NOT EXISTS departments (
        department_id INT (3),
        department_name VARCHAR (25),
        manager_id INT (3),
        location_id INT (3),
        CONSTRAINT PK_department_id PRIMARY KEY (department_id),
        CONSTRAINT FK_location_id FOREIGN KEY (location_id) REFERENCES locations (location_id)
Affected rows: 0
Time: 0.515s
```

## Output:

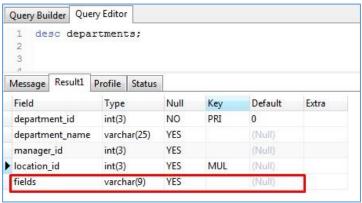




# 2. Syntax:



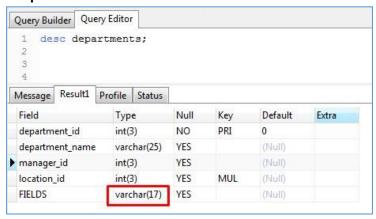
## Output:



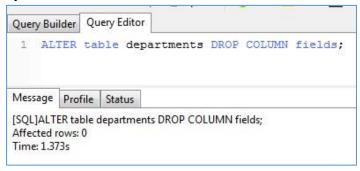
## 3. Syntax:



## Output:



## 4. Syntax:



# Output:

