

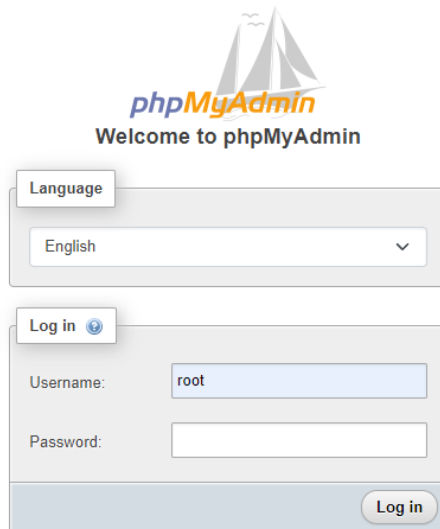
Tugas Pertemuan 9

Nama: Fuad Mustamirrul Ishlah

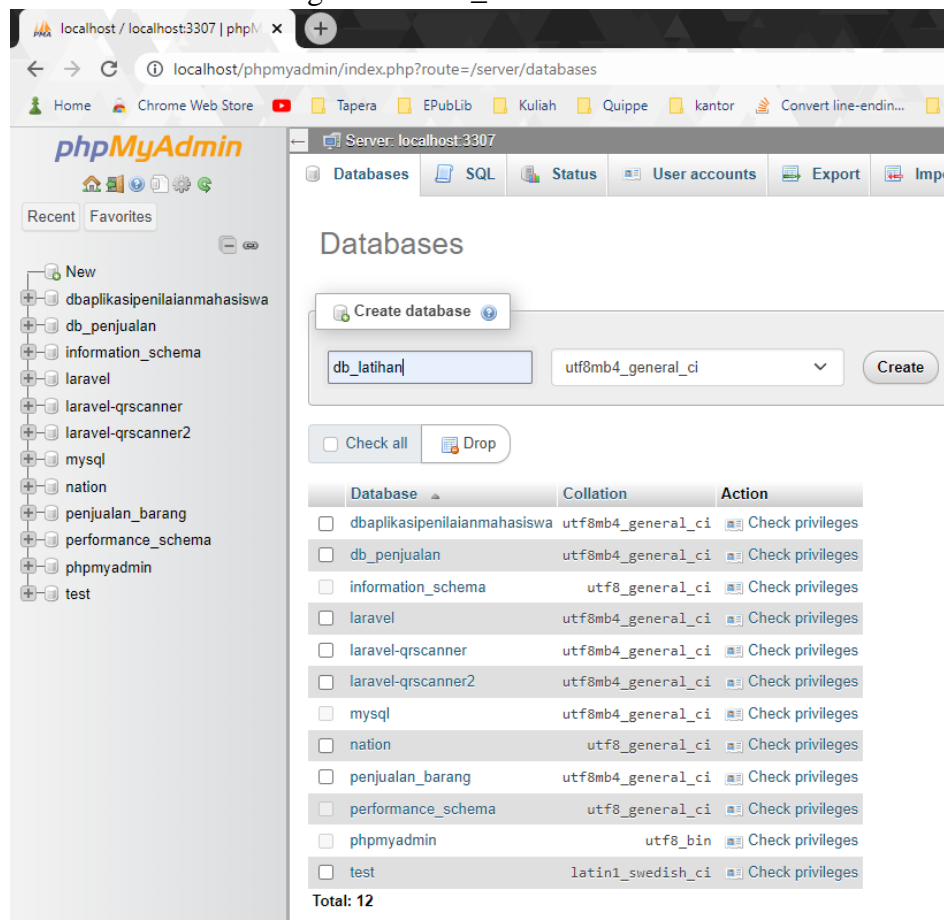
NIM: 201011400093

Langkah-Langkah Pembuatan db_latihan

1. Log in ke phpMyAdmin dengan user root



2. Buat database baru dengan nama db_latihan



Server: localhost:3307

Databases SQL Status User accounts Export Import

Databases

Create database

db_latihan utf8mb4_general_ci Create

☐ Check all

| Database | Collation | Action |
|---|--------------------|---|
| <input type="checkbox"/> dbaplikasipenilaianmahasiswa | utf8mb4_general_ci | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> db_penjualan | utf8mb4_general_ci | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> information_schema | utf8_general_ci | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> laravel | utf8mb4_general_ci | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> laravel-qrcode | utf8mb4_general_ci | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> laravel-qrcode2 | utf8mb4_general_ci | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> mysql | utf8mb4_general_ci | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> nation | utf8_general_ci | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> penjualan_barang | utf8mb4_general_ci | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> performance_schema | utf8_general_ci | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> phpmyadmin | utf8_bin | <input type="button" value="Check privileges"/> |
| <input type="checkbox"/> test | latin1_swedish_ci | <input type="button" value="Check privileges"/> |

Total: 12

3. Buat tabel baru dengan nama user

Server: localhost:3307 » Database: db_latihan

Table name: user Add 1 column(s) Go

| Name | Type | Length/Values | Default | Collation | Attributes | Null | Index |
|----------|---------|---------------|---------|-----------|------------|--------------------------|---------|
| id | VARCHAR | 36 | None | | | <input type="checkbox"/> | PRIMARY |
| username | VARCHAR | 20 | None | | | <input type="checkbox"/> | --- |
| password | VARCHAR | 40 | None | | | <input type="checkbox"/> | --- |
| email | VARCHAR | 40 | None | | | <input type="checkbox"/> | --- |

note:

- “id” VARCHAR(36) karena akan menyimpan UUID
- “password” VARCHAR(40) karena akan menyimpan hasil hash SHA1

4. Buat tabel baru dengan nama dosen beserta index foreign key-nya ke tabel user

Server: localhost:3307 » Database: db_latihan

Table name: dosen Add 1 column(s) Go

| Name | Type | Length/Values | Default | Collation | Attributes | Null | Index |
|---------|---------|---------------|---------|-----------|------------|--------------------------|------------------|
| nidn | INT | | None | | | <input type="checkbox"/> | PRIMARY |
| id_user | VARCHAR | 36 | None | | | <input type="checkbox"/> | INDEX fk_user |
| nama | VARCHAR | 50 | None | | | <input type="checkbox"/> | --- |

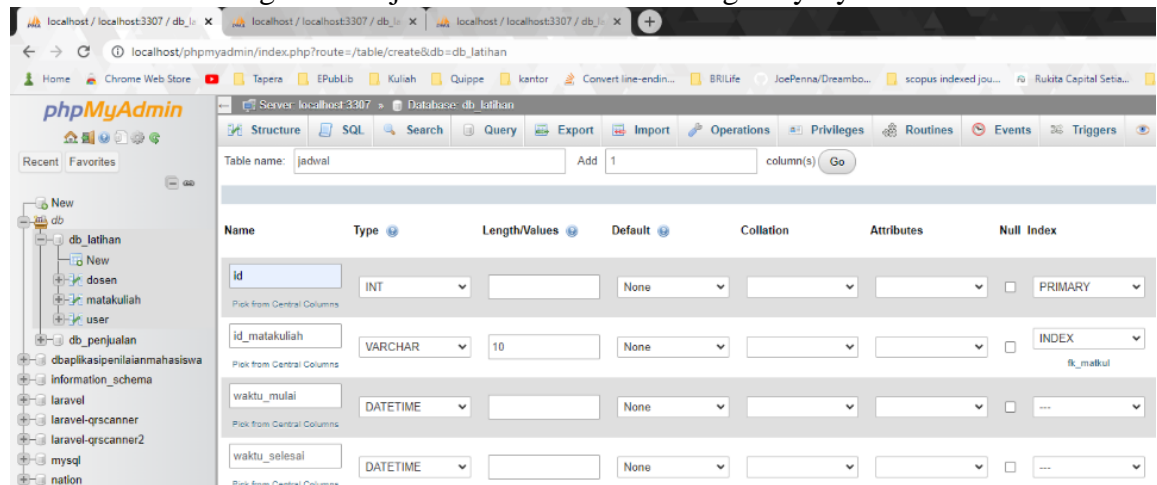
5. Buat tabel baru dengan nama matakuliah beserta index foreign key-nya ke tabel dosen

Server: localhost:3307 » Database: db_latihan

Table name: matakuliah Add 1 column(s) Go

| Name | Type | Length/Values | Default | Collation | Attributes | Null | Index |
|----------------|---------|---------------|---------|-----------|------------|--------------------------|-------------------|
| id | VARCHAR | 10 | None | | | <input type="checkbox"/> | PRIMARY |
| dosen_pengampu | INT | | None | | | <input type="checkbox"/> | INDEX fk_dosen |
| nama | VARCHAR | 40 | None | | | <input type="checkbox"/> | --- |

6. Buat tabel baru dengan nama jadwal beserta index foreign key-nya ke tabel matakuliah

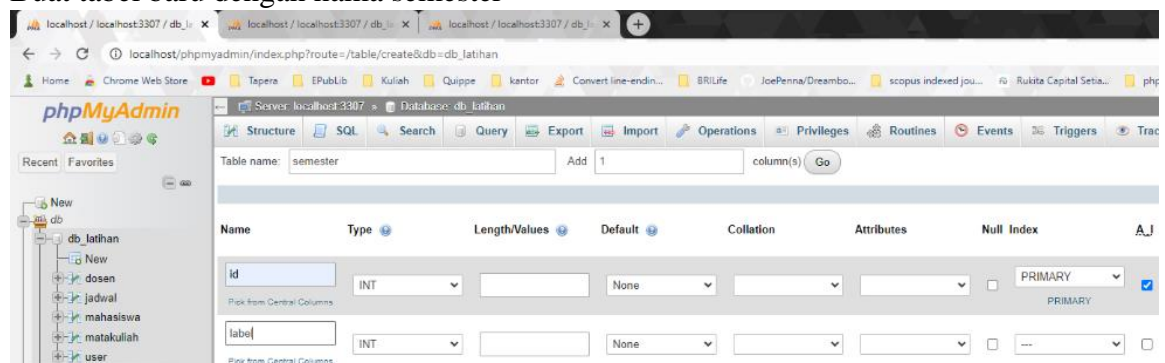


Server: localhost:3307 > Database: db_latihan

Table name: Add 1 column(s) Go

| Name | Type | Length/Values | Default | Collation | Attributes | Null | Index |
|--|----------|---------------|---------|-----------|------------|--------------------------|---------------------|
| <input type="text" value="id"/> | INT | | None | | | <input type="checkbox"/> | PRIMARY |
| <input type="text" value="id_matakuliah"/> | VARCHAR | 10 | None | | | <input type="checkbox"/> | INDEX fk_matakul |
| <input type="text" value="waktu_mulai"/> | DATETIME | | None | | | <input type="checkbox"/> | --- |
| <input type="text" value="waktu_selesai"/> | DATETIME | | None | | | <input type="checkbox"/> | --- |

7. Buat tabel baru dengan nama semester

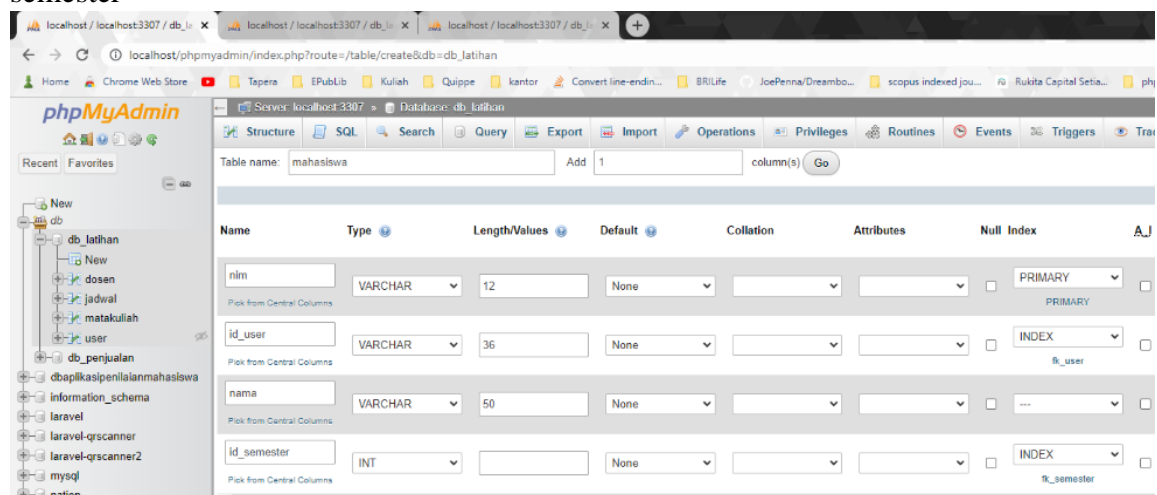


Server: localhost:3307 > Database: db_latihan

Table name: Add 1 column(s) Go

| Name | Type | Length/Values | Default | Collation | Attributes | Null | Index |
|------------------------------------|------|---------------|---------|-----------|------------|--------------------------|---------|
| <input type="text" value="id"/> | INT | | None | | | <input type="checkbox"/> | PRIMARY |
| <input type="text" value="label"/> | INT | | None | | | <input type="checkbox"/> | --- |

8. Buat tabel baru dengan nama mahasiswa beserta index foreign key-nya ke tabel user dan semester

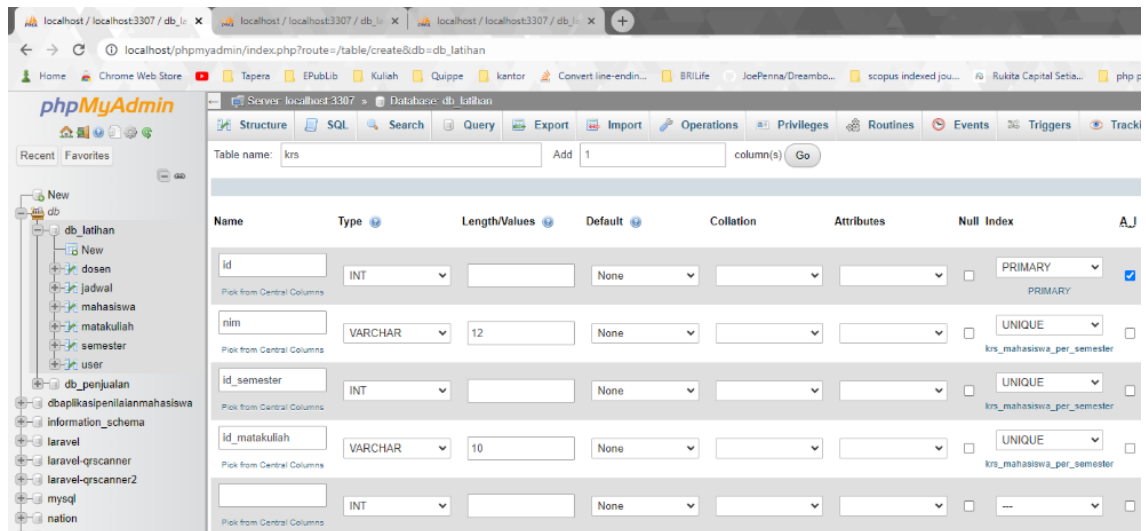


Server: localhost:3307 > Database: db_latihan

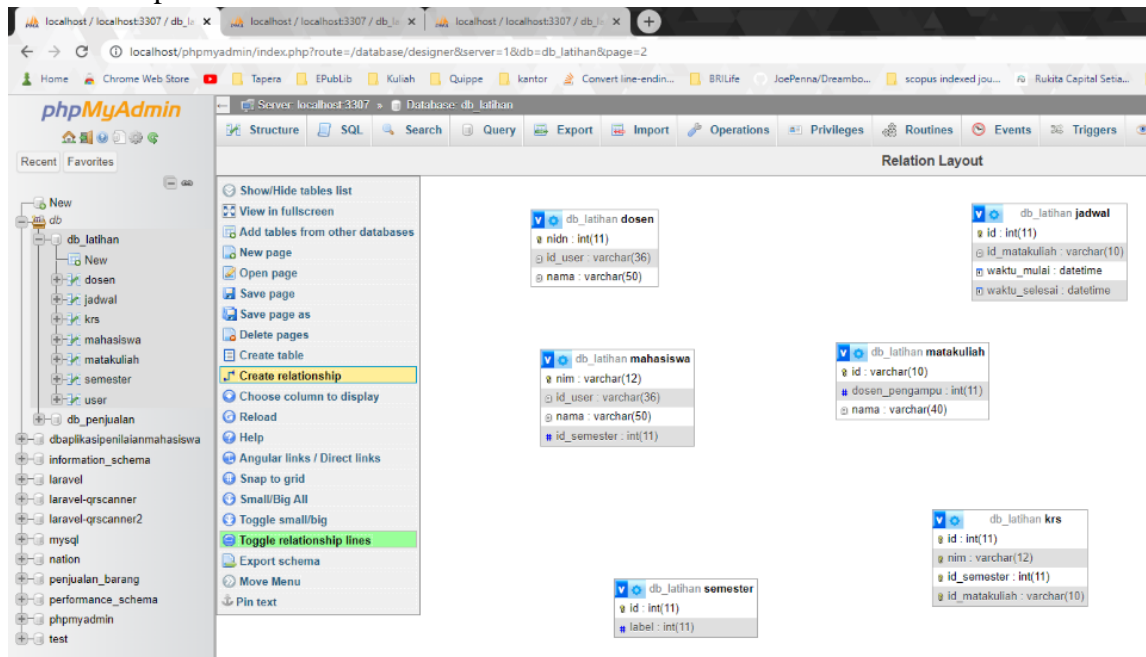
Table name: Add 1 column(s) Go

| Name | Type | Length/Values | Default | Collation | Attributes | Null | Index |
|--|---------|---------------|---------|-----------|------------|--------------------------|----------------------|
| <input type="text" value="nim"/> | VARCHAR | 12 | None | | | <input type="checkbox"/> | PRIMARY |
| <input type="text" value="id_user"/> | VARCHAR | 36 | None | | | <input type="checkbox"/> | INDEX fk_user |
| <input type="text" value="nama"/> | VARCHAR | 50 | None | | | <input type="checkbox"/> | --- |
| <input type="text" value="id_semester"/> | INT | | None | | | <input type="checkbox"/> | INDEX fk_semester |

9. Buat tabel baru dengan nama krs berisi foreign key ke tabel mahasiswa, semester dan matakuliah



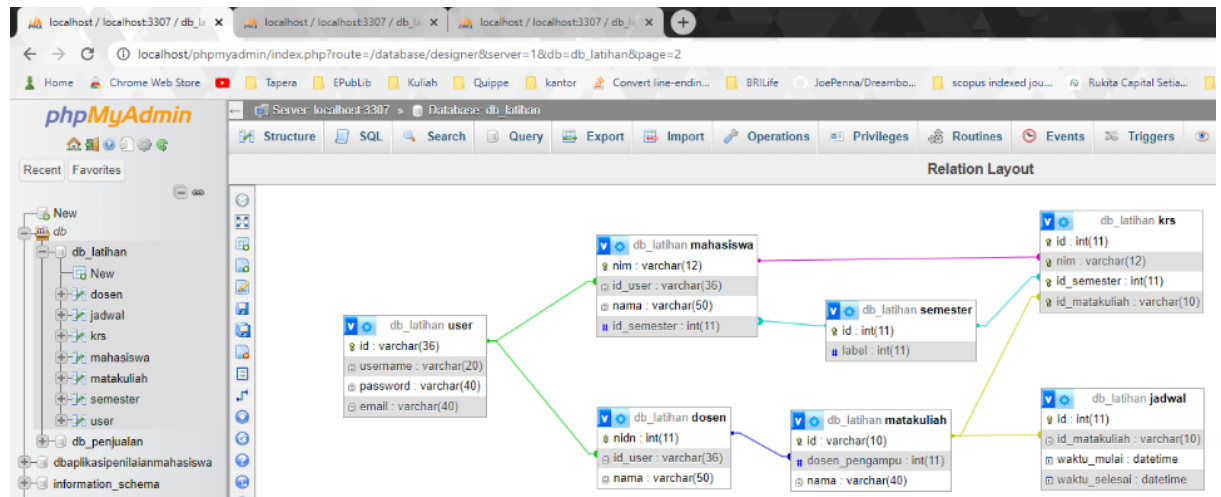
10. Buka halaman designer, buat masing-masing relasi menggunakan menu Create Relationship



11. Pada pilihan constraint, isi on delete dengan RESTRICT dan on update CASCADE supaya query delete akan dicegah kalau data yang akan di delete pada tabel user masih direferensikan pada tabel dosen atau mahasiswa, dan apabila id dari user tersebut di-update yang ada pada tabel dosen atau mahasiswa juga ikut terupdate



12. Hasil relasi:



13. Contoh pengisian tabel user:

| Column | Type | Function | Null | Value |
|----------|-------------|----------|------|---------------------------|
| id | varchar(36) | UUID | | |
| username | varchar(20) | | | fumui |
| password | varchar(40) | SHA1 | | msa8723md72 |
| email | varchar(40) | | | fuad.mustamirul@gmail.com |