CREATE TABLE room\_loans (

id INT PRIMARY KEY AUTO\_INCREMENT,

user\_id INT,

rooms\_id INT,

matakuliah\_id int

tanggal DATE,

jam TIME,

status ENUM('Dipesan', 'Selesai', 'Batal'),

FOREIGN KEY (user\_id) references users(id)

FOREIGN KEY (rooms\_id) REFERENCES rooms(id)

FOREIGN KEY(matakuliah\_id) REFERENCES mata\_kuliahs(id)

);  
  
CREATE TABLE jadwal\_ruangan (

id INT PRIMARY KEY AUTO\_INCREMENT,

rooms\_id INT, -- Relasi ke tabel ruangan

matakuliah\_id INT –Relasi ke tabel mata\_kuliah

hari VARCHAR(20), -- Hari dalam seminggu

jam\_mulai TIME, -- Jam mulai

jam\_selesai TIME, -- Jam selesai

FOREIGN KEY (ruangan\_id) REFERENCES ruangan(id)

);

CREATE TABLE Mata\_Kuliah ( id INT PRIMARY KEY AUTO\_INCREMENT,

kode\_mata\_kuliah VARCHAR(20) NOT NULL UNIQUE,

nama\_mata\_kuliah VARCHAR(100) NOT NULL,

sks int

tipe ENUM('wajib', 'umum') NOT NULL );

Schema::create('program\_studis', function (Blueprint $table) {

$table->id();

$table->string('kode\_program\_studi', 20)->unique();

$table->string('nama\_program\_studi', 100);

$table->foreignId('fakultas\_id')->constrained('fakultas')->onDelete('cascade');

$table->timestamps();

});

Schema::create('fakultas', function (Blueprint $table) {

$table->id();

$table->string('kode\_fakultas', 20)->unique();

$table->string('nama\_fakultas', 100);

$table->timestamps();

});

use Carbon\Carbon;

$hari = Carbon::parse($request->tanggal)->locale('id')->isoFormat('dddd'); // hasil: 'Selasa'

// Normalisasi kapital

$hari = ucfirst(strtolower($hari));

$conflict = JadwalRuangan::where('rooms\_id', $request->rooms\_id)

->where('hari', $hari)

->where(function ($query) use ($request) {

$query->whereBetween('jam\_mulai', [$request->jam\_mulai, $request->jam\_selesai])

->orWhereBetween('jam\_selesai', [$request->jam\_mulai, $request->jam\_selesai])

->orWhere(function ($q) use ($request) {

$q->where('jam\_mulai', '<=', $request->jam\_mulai)

->where('jam\_selesai', '>=', $request->jam\_selesai);

});

})

->exists();