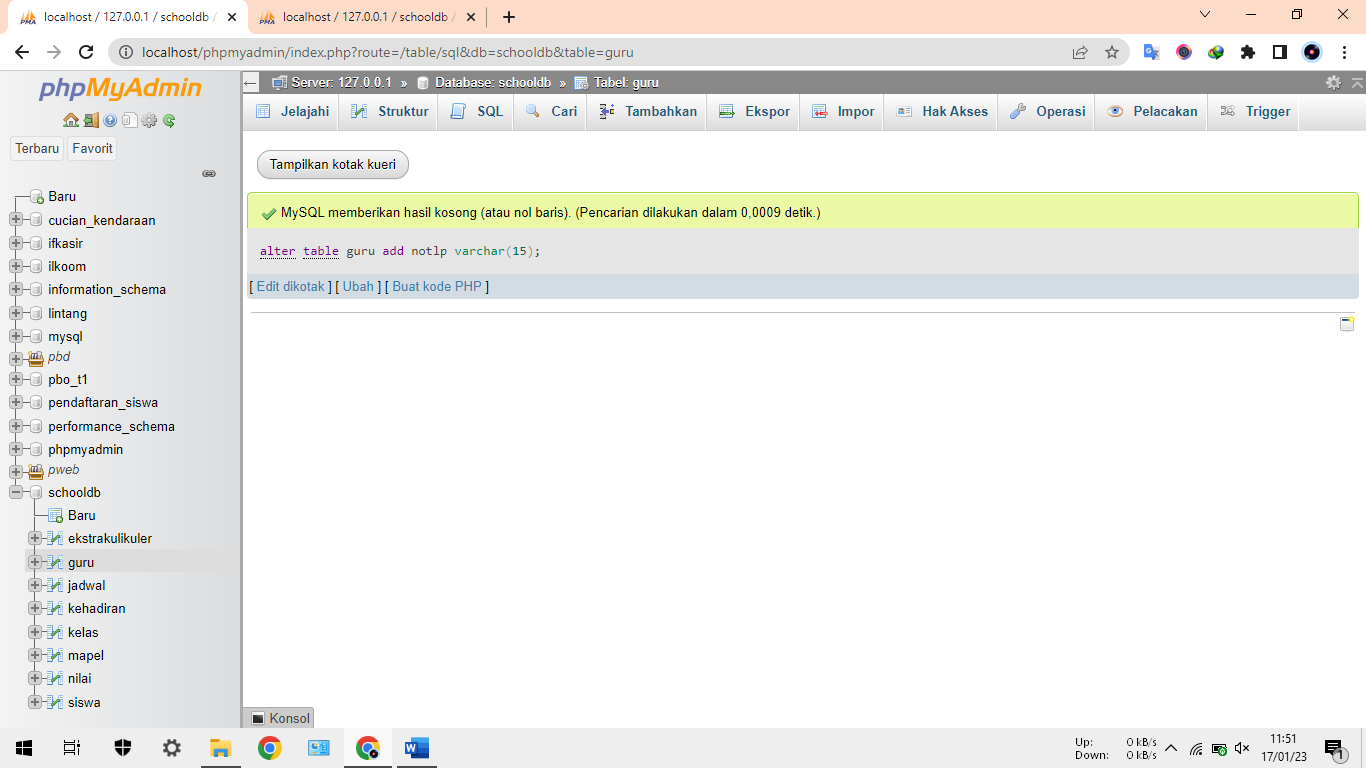
Nama : Muhammad Lintang Pamungkas

NIM : 210103028

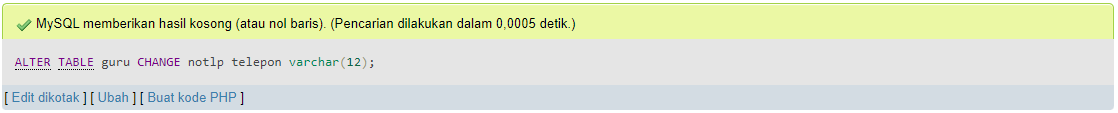
Kelas : TI 21A1

Bagian : UPDATE

1. **Alter**
2. Add

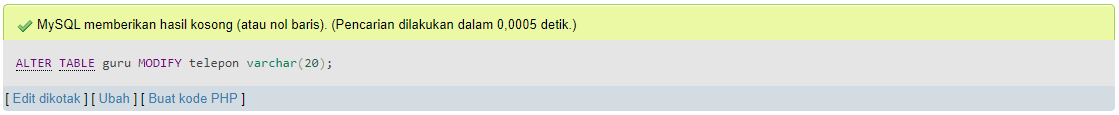
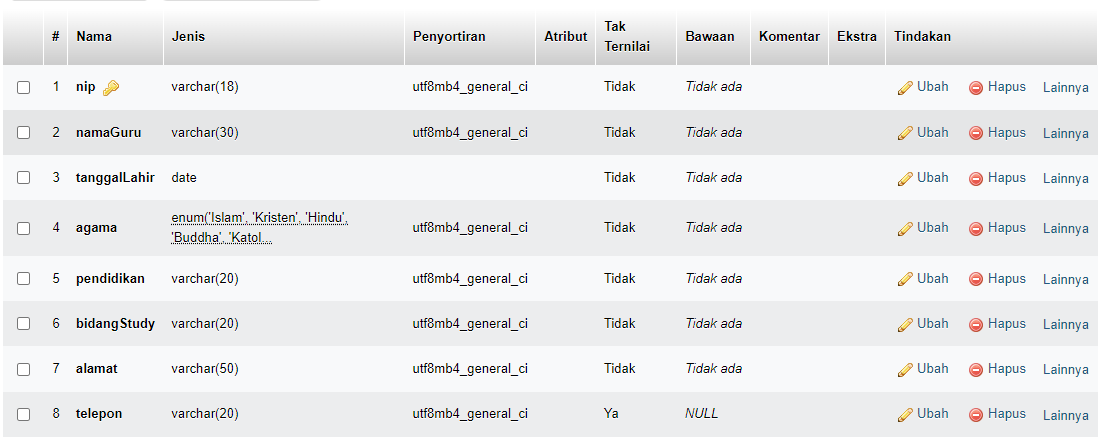
ALTER TABLE guru ADD notlp varchar(15);

1. Change

ALTER TABLE guru CHANGE notlp telepon varchar(12);

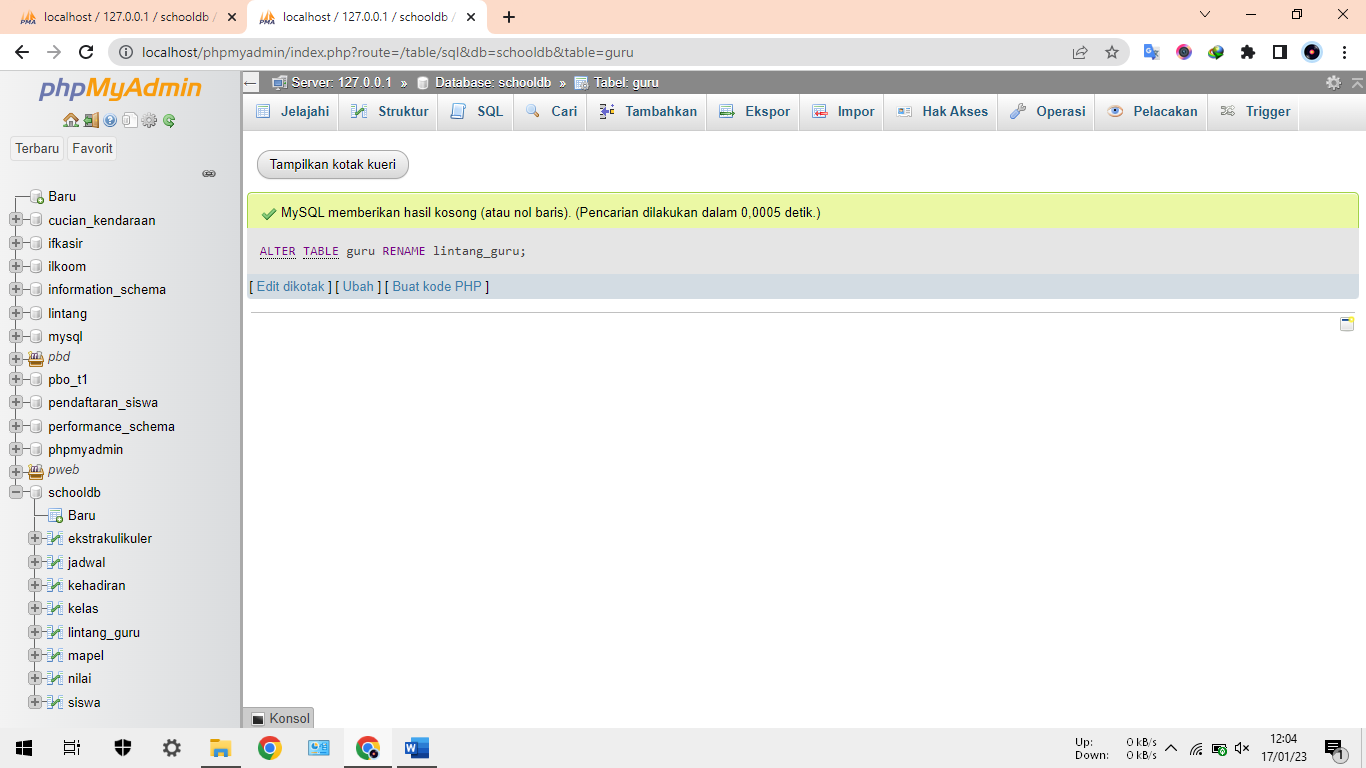
1. Modify

ALTER TABLE guru MODIFY telepon varchar(20);



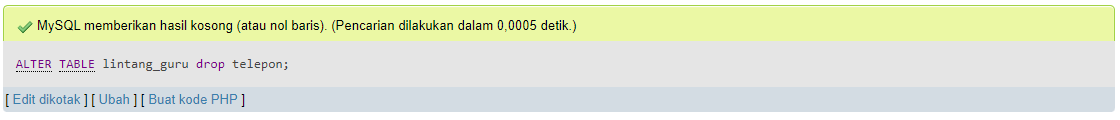
1. Rename

ALTER TABLE guru RENAME lintang\_guru;



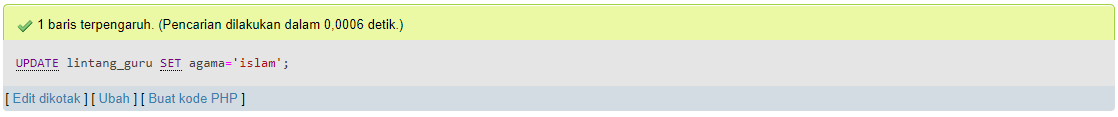
1. Drop

ALTER TABLE lintang\_guru drop telepon;

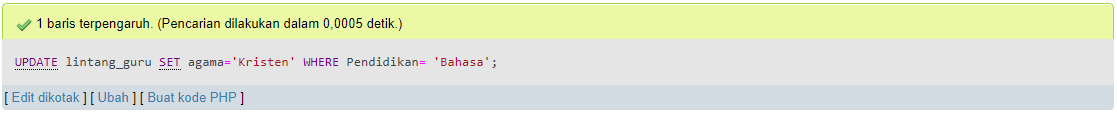


1. **Update**
2. Update semua record

UPDATE lintang\_guru SET agama=islam;



1. Update salah satu guru

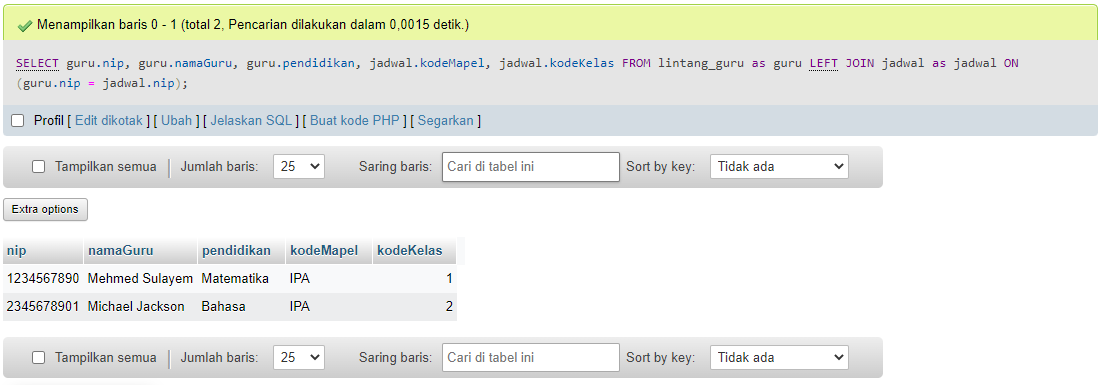
UPDATE lintang\_guru SET agama=’Kristen’ WHERE Pendidikan= ‘Bahasa’;

1. **Join**
2. Inner join

SELECT guru.nip, guru.namaGuru, guru.pendidikan, guru.alamat FROM lintang\_guru as guru INNER JOIN jadwal as j WHERE guru.nip = j.nip;

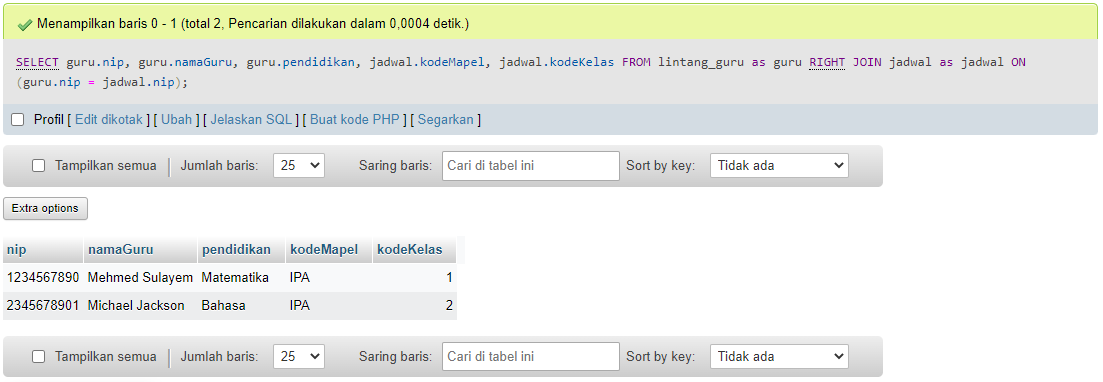
1. Left join

SELECT guru.nip, guru.namaGuru, guru.pendidikan, jadwal.kodeMapel, jadwal.kodeKelas FROM lintang\_guru as guru LEFT JOIN jadwal as jadwal ON (guru.nip = jadwal.nip)



1. Right join

SELECT guru.nip, guru.namaGuru, guru.pendidikan, jadwal.kodeMapel, jadwal.kodeKelas FROM lintang\_guru as guru RIGHT JOIN jadwal as jadwal ON (guru.nip = jadwal.nip);

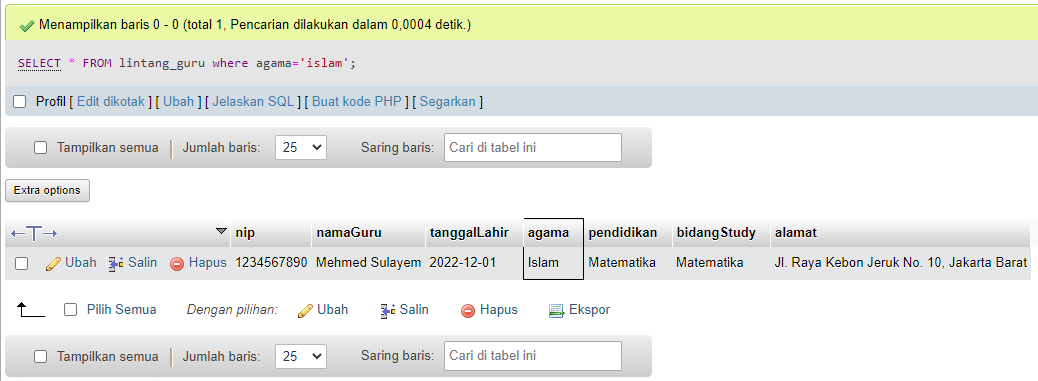


1. **Alias**

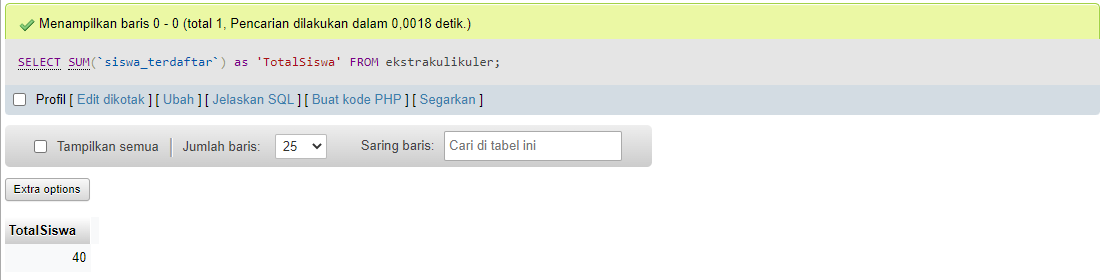
SELECT nip as id, namaGuru as guru, bidangStudy as mataPelajaran, alamat FROM lintang\_guru;

1. **Where**

SELECT \* FROM lintang\_guru where agama='islam';

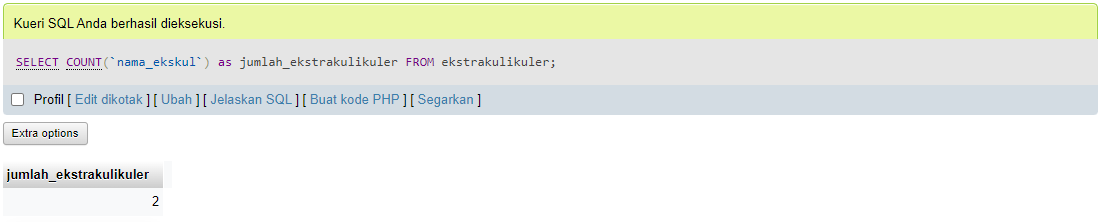


1. **Query dengan agregasi**
2. Sum

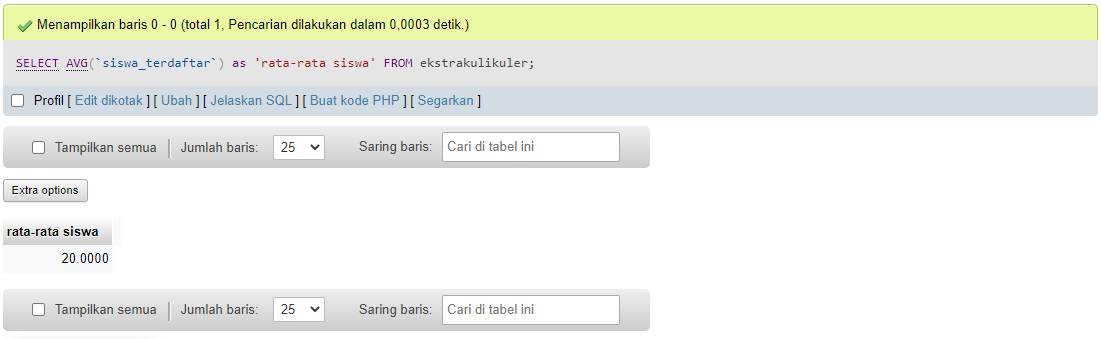
SELECT SUM(`siswa\_terdaftar`) as 'TotalSiswa' FROM ekstrakulikuler; 

1. Count

SELECT COUNT(`nama\_ekskul`) as jumlah\_ekstrakulikuler FROM ekstrakulikuler;

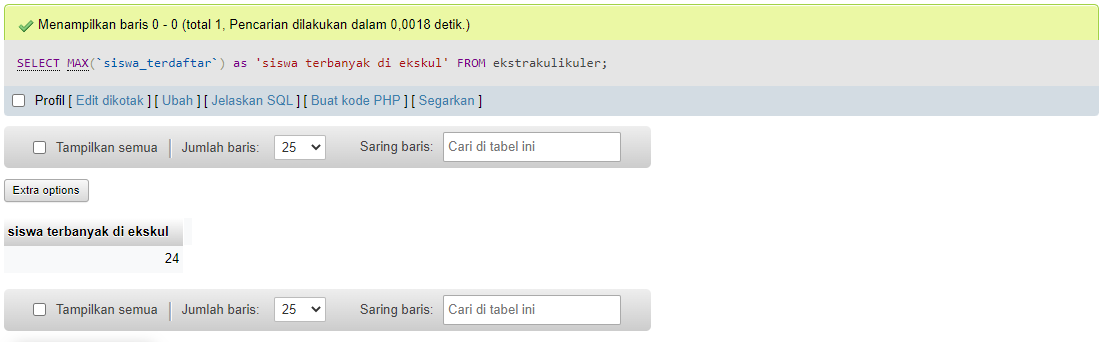


1. Average

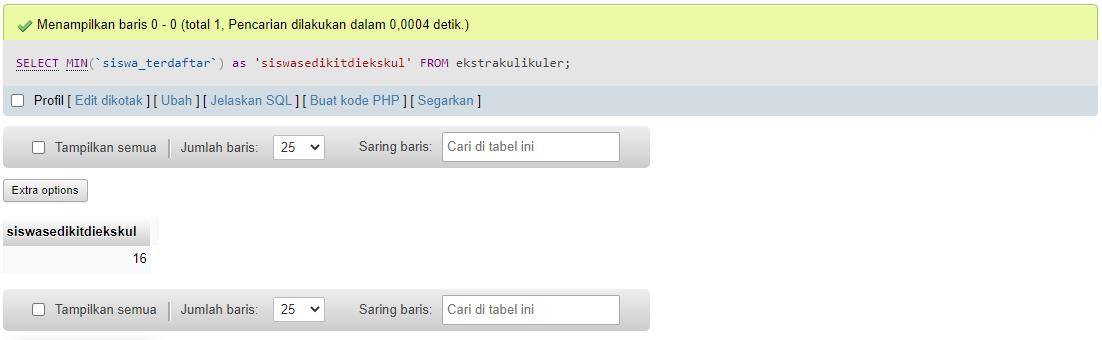
SELECT AVG(`siswa\_terdaftar`) as 'rata-rata siswa' FROM ekstrakulikuler;

1. Max

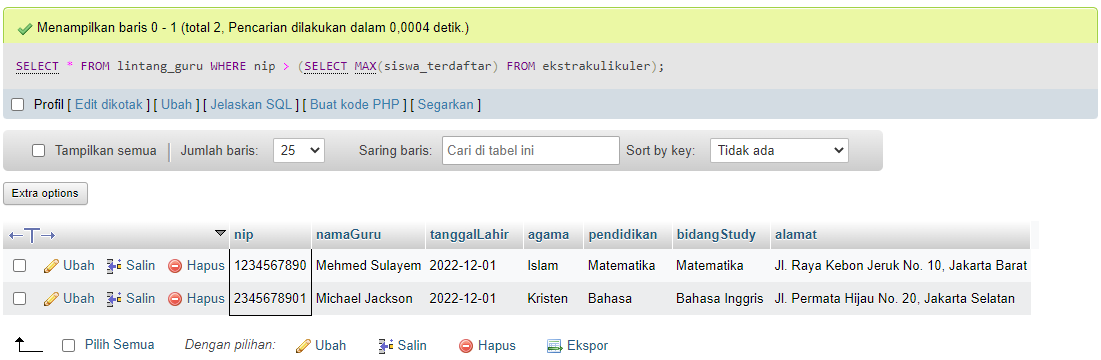
SELECT MAX(`siswa\_terdaftar`) as 'siswa terbanyak di ekskul' FROM ekstrakulikuler;



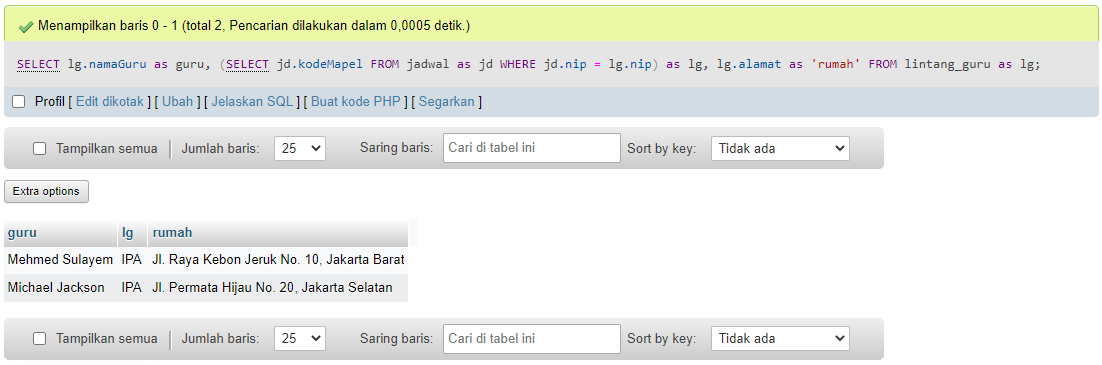
1. Min

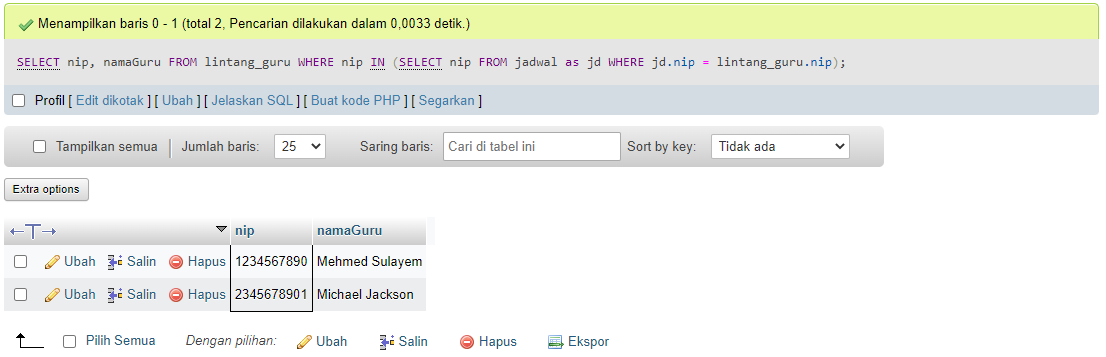
SELECT MIN(`siswa\_terdaftar`) as 'siswasedikitdiekskul' FROM ekstrakulikuler; 

1. **Query bersarang**

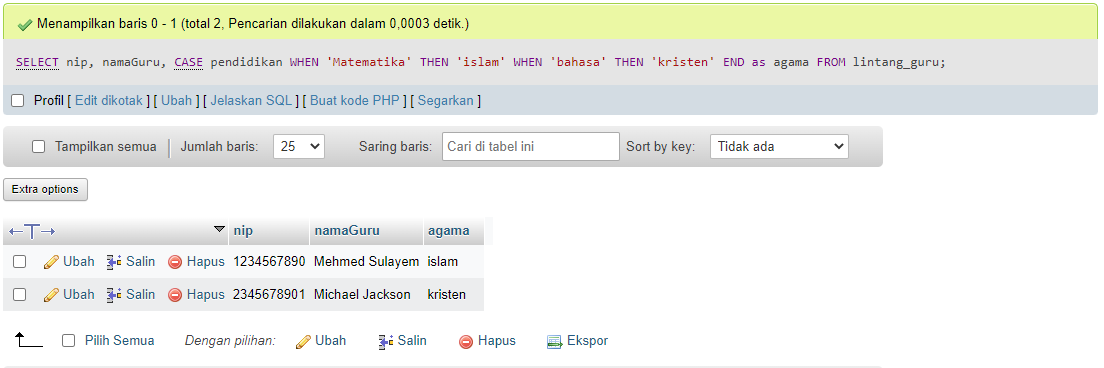
****SELECT \* FROM lintang\_guru WHERE nip > (SELECT MAX(siswa\_terdaftar) FROM ekstrakulikuler);

SELECT lg.namaGuru as guru, (SELECT jd.kodeMapel FROM jadwal as jd WHERE jd.nip = lg.nip) as lg, lg.alamat as 'rumah' FROM lintang\_guru as lg;



SELECT nip, namaGuru FROM lintang\_guru WHERE nip IN (SELECT nip FROM jadwal as jd WHERE jd.nip = lintang\_guru.nip);

1. **Case**

SELECT nip, namaGuru, CASE pendidikan WHEN 'Matematika' THEN 'islam' WHEN 'bahasa' THEN 'kristen' END as agama FROM lintang\_guru;