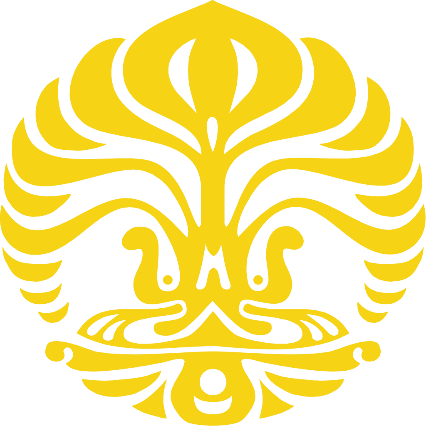
Laporan Tahap I Tugas Kelompok Basis Data



Nama Anggota Kelompok :

Abdurrahman Saleh (1506730382)

Farid Wajdi (1506727330)

Median Hardiv Nugraha (1406574005)

Nama Kelompok :

B16

Kelas :

C

1. Create Schema and Table

* Create Schema SIRIMA;



* Create Domain YEAR as CHAR(4);



* Tabel Akun

CREATE TABLE AKUN(

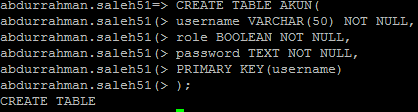
username VARCHAR(50) NOT NULL,

role BOOLEAN NOT NULL,

password TEXT NOT NULL,

PRIMARY KEY(username)

);



* Tabel Periode Penerimaan

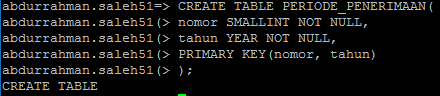
CREATE TABLE PERIODE\_PENERIMAAN(

nomor SMALLINT NOT NULL,

tahun YEAR NOT NULL,

PRIMARY KEY(nomor, tahun)

);



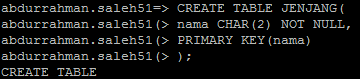
* Tabel Jenjang

CREATE TABLE JENJANG(

nama CHAR(2) NOT NULL,

PRIMARY KEY(nama)

);



* Tabel Jadwal Penting

CREATE TABLE JADWAL\_PENTING(

nomor SMALLINT NOT NULL,

tahun YEAR NOT NULL,

jenjang CHAR(2) NOT NULL,

waktu\_mulai TIMESTAMP NOT NULL,

waktu\_selesai TIMESTAMP NOT NULL,

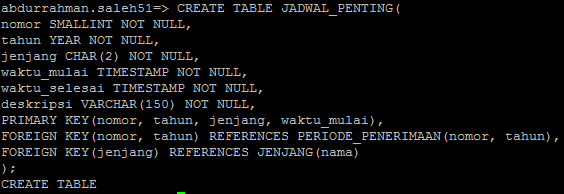
deskripsi VARCHAR(150) NOT NULL,

PRIMARY KEY(nomor, tahun, jenjang, waktu\_mulai),

FOREIGN KEY(nomor, tahun) REFERENCES PERIODE\_PENERIMAAN(nomor, tahun),

FOREIGN KEY(jenjang) REFERENCES JENJANG(nama)

);



* Tabel Program Studi

CREATE TABLE PROGRAM\_STUDI(

kode SERIAL NOT NULL,

nama VARCHAR(100) NOT NULL,

jenis\_kelas VARCHAR(50) NOT NULL,

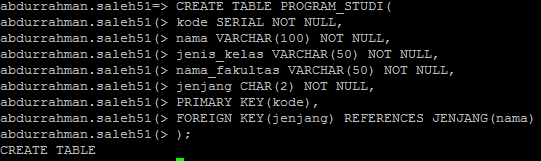
nama\_fakultas VARCHAR(50) NOT NULL,

jenjang CHAR(2) NOT NULL,

PRIMARY KEY(kode),

FOREIGN KEY(jenjang) REFERENCES JENJANG(nama)

);



* Tabel Penerimaan Prodi

CREATE TABLE PENERIMAAN\_PRODI(

nomor\_periode INT NOT NULL,

tahun\_periode YEAR NOT NULL,

kode\_prodi INT NOT NULL,

kuota INT NOT NULL,

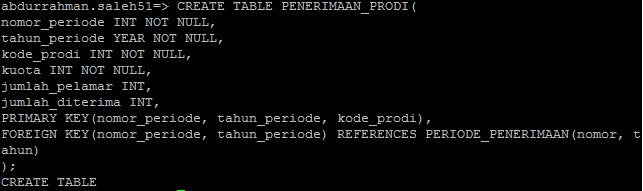
jumlah\_pelamar INT,

jumlah\_diterima INT,

PRIMARY KEY(nomor\_periode, tahun\_periode, kode\_prodi),

FOREIGN KEY(nomor\_periode, tahun\_periode) REFERENCES PERIODE\_PENERIMAAN(nomor, tahun)

);



* Tabel Pelamar

CREATE TABLE PELAMAR(

username VARCHAR(50) NOT NULL,

nama\_lengkap VARCHAR(100) NOT NULL,

alamat TEXT NOT NULL,

jenis\_kelamin CHAR(1) NOT NULL,

tanggal\_lahir DATE NOT NULL,

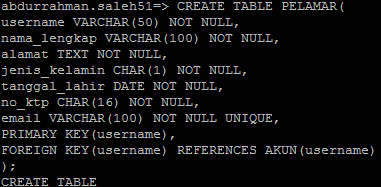
no\_ktp CHAR(16) NOT NULL,

email VARCHAR(100) NOT NULL UNIQUE,

PRIMARY KEY(username),

FOREIGN KEY(username) REFERENCES AKUN(username)

);



* Tabel Pendaftaran

CREATE TABLE PENDAFTARAN(

id SERIAL NOT NULL,

status\_lulus BOOLEAN NOT NULL DEFAULT 'FALSE',

status\_verifikasi BOOLEAN NOT NULL DEFAULT 'FALSE',

npm CHAR(10),

pelamar VARCHAR(50) NOT NULL,

nomor\_periode SMALLINT NOT NULL,

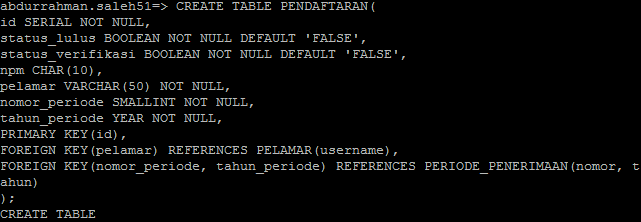
tahun\_periode YEAR NOT NULL,

PRIMARY KEY(id),

FOREIGN KEY(pelamar) REFERENCES PELAMAR(username),

FOREIGN KEY(nomor\_periode, tahun\_periode) REFERENCES PERIODE\_PENERIMAAN(nomor, tahun)

);



* Tabel Pendaftaran UUI

CREATE TABLE PENDAFTARAN\_UUI(

id\_pendaftaran INT NOT NULL,

rapot VARCHAR(100) NOT NULL,

surat\_rekomendasi VARCHAR(100) NOT NULL,

asal\_sekolah VARCHAR(100) NOT NULL,

jenis\_sma VARCHAR(50) NOT NULL,

alamat\_sekolah TEXT NOT NULL,

nisn VARCHAR(10) NOT NULL,

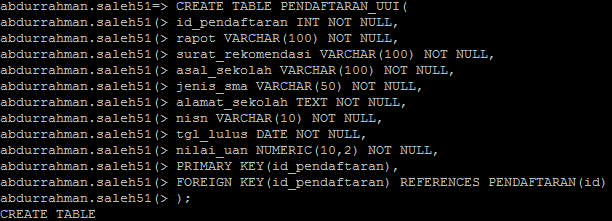
tgl\_lulus DATE NOT NULL,

nilai\_uan NUMERIC(10,2) NOT NULL,

PRIMARY KEY(id\_pendaftaran),

FOREIGN KEY(id\_pendaftaran) REFERENCES PENDAFTARAN(id)

);



* Tabel Rekomendasi

CREATE TABLE REKOMENDASI(

tgl\_review DATE NOT NULL,

id\_pendaftaran INT NOT NULL,

status BOOLEAN NOT NULL,

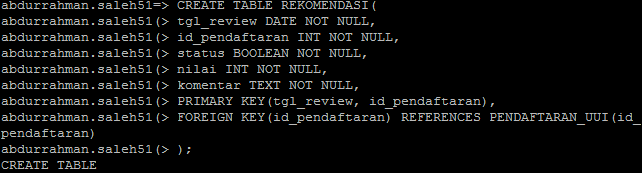
nilai INT NOT NULL,

komentar TEXT NOT NULL,

PRIMARY KEY(tgl\_review, id\_pendaftaran),

FOREIGN KEY(id\_pendaftaran) REFERENCES PENDAFTARAN\_UUI(id\_pendaftaran)

);



* Tabel Pendaftaran Semas

CREATE TABLE PENDAFTARAN\_SEMAS(

id\_pendaftaran INT NOT NULL,

status\_hadir BOOLEAN NOT NULL,

nilai\_ujian INT NOT NULL,

no\_kartu\_ujian CHAR(10) NOT NULL,

lokasi\_kota VARCHAR(100) NOT NULL,

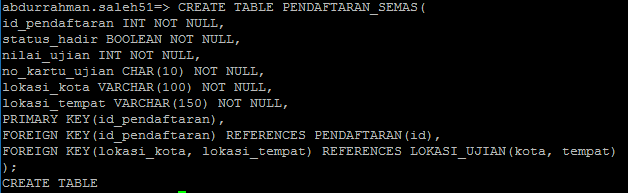
lokasi\_tempat VARCHAR(150) NOT NULL,

PRIMARY KEY(id\_pendaftaran),

FOREIGN KEY(id\_pendaftaran) REFERENCES PENDAFTARAN(id),

FOREIGN KEY(lokasi\_kota, lokasi\_tempat) REFERENCES LOKASI\_UJIAN(kota, tempat)

);



* Tabel Pendaftaran Semas Sarjana

CREATE TABLE PENDAFTARAN\_SEMAS\_SARJANA(

id\_pendaftaran INT NOT NULL,

asal\_sekolah VARCHAR(100) NOT NULL,

jenis\_sma VARCHAR(50) NOT NULL,

alamat\_sekolah TEXT NOT NULL,

nisn VARCHAR(10) NOT NULL,

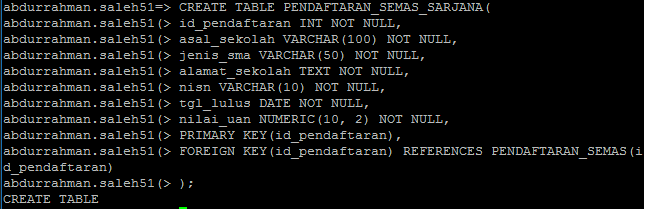
tgl\_lulus DATE NOT NULL,

nilai\_uan NUMERIC(10, 2) NOT NULL,

PRIMARY KEY(id\_pendaftaran),

FOREIGN KEY(id\_pendaftaran) REFERENCES PENDAFTARAN\_SEMAS(id\_pendaftaran)

);



* Tabel Pendaftaran Semas Pascasarjana

CREATE TABLE PENDAFTARAN\_SEMAS\_PASCASARJANA(

id\_pendaftaran INT NOT NULL,

nilai\_tpa INT NOT NULL,

nilai\_toefl INT NOT NULL,

jenjang\_terakhir CHAR(2) NOT NULL,

asal\_univ VARCHAR(100) NOT NULL,

alamat\_univ TEXT NOT NULL,

prodi\_terakhir VARCHAR(100) NOT NULL,

nilai\_ipk NUMERIC(10, 2) NOT NULL,

no\_ijazah VARCHAR(50) NOT NULL,

tgl\_lulus DATE NOT NULL,

jenjang CHAR(2) NOT NULL,

nama\_rekomender VARCHAR(100),

prop\_penelitian VARCHAR(100),

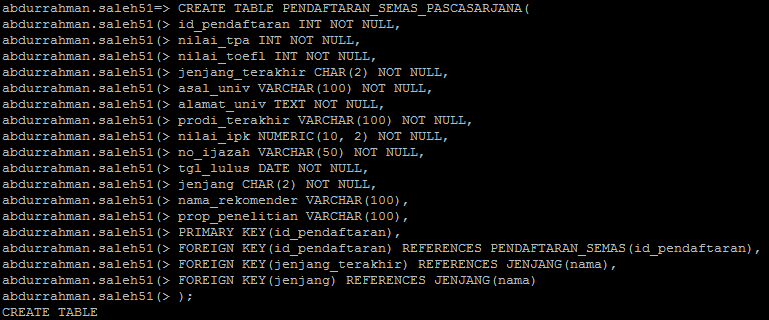
PRIMARY KEY(id\_pendaftaran),

FOREIGN KEY(id\_pendaftaran) REFERENCES PENDAFTARAN\_SEMAS(id\_pendaftaran),

FOREIGN KEY(jenjang\_terakhir) REFERENCES JENJANG(nama),

FOREIGN KEY(jenjang) REFERENCES JENJANG(nama)

);



* Tabel Pembayaran

CREATE TABLE PEMBAYARAN(

id SERIAL NOT NULL,

waktu\_bayar TIMESTAMP NOT NULL,

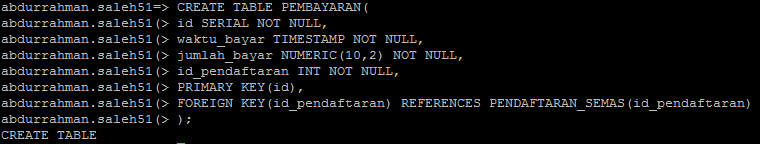
jumlah\_bayar NUMERIC(10,2) NOT NULL,

id\_pendaftaran INT NOT NULL,

PRIMARY KEY(id),

FOREIGN KEY(id\_pendaftaran) REFERENCES PENDAFTARAN\_SEMAS(id\_pendaftaran)

);



* Tabel Lokasi Ujian

CREATE TABLE LOKASI\_UJIAN(

kota VARCHAR(100) NOT NULL,

tempat VARCHAR(150) NOT NULL,

nomor\_periode SMALLINT NOT NULL,

tahun\_periode YEAR NOT NULL,

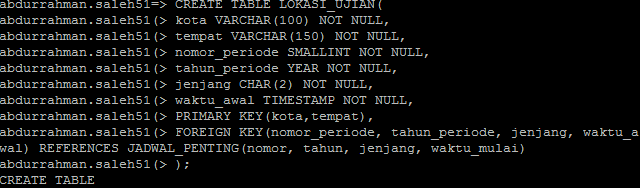
jenjang CHAR(2) NOT NULL,

waktu\_awal TIMESTAMP NOT NULL,

PRIMARY KEY(kota,tempat),

FOREIGN KEY(nomor\_periode, tahun\_periode, jenjang, waktu\_awal) REFERENCES JADWAL\_PENTING(nomor, tahun, jenjang, waktu\_mulai)

);



* Tabel Ruang Ujian

CREATE TABLE RUANG\_UJIAN(

kota VARCHAR(100) NOT NULL,

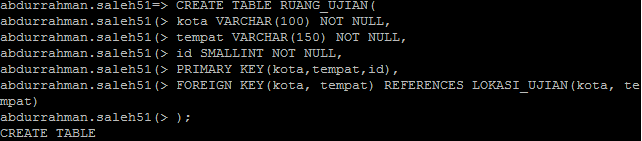
tempat VARCHAR(150) NOT NULL,

id SMALLINT NOT NULL,

PRIMARY KEY(kota,tempat,id),

FOREIGN KEY(kota, tempat) REFERENCES LOKASI\_UJIAN(kota, tempat)

);



* Tabel Pengawas

CREATE TABLE PENGAWAS(

nomor\_induk VARCHAR(16) NOT NULL,

nama VARCHAR(100) NOT NULL,

no\_telp TEXT NOT NULL,

lokasi\_kota VARCHAR(100) NOT NULL,

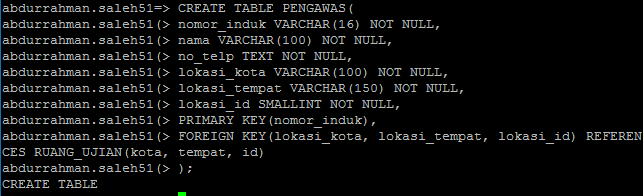
lokasi\_tempat VARCHAR(150) NOT NULL,

lokasi\_id SMALLINT NOT NULL,

PRIMARY KEY(nomor\_induk),

FOREIGN KEY(lokasi\_kota, lokasi\_tempat, lokasi\_id) REFERENCES RUANG\_UJIAN(kota, tempat, id)

);



* Tabel Pendaftaran Prodi

CREATE TABLE PENDAFTARAN\_PRODI(

id\_pendaftaran INT NOT NULL,

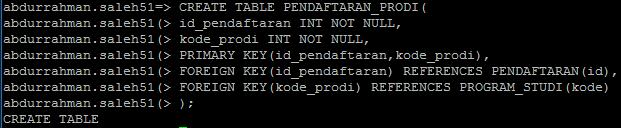
kode\_prodi INT NOT NULL,

PRIMARY KEY(id\_pendaftaran,kode\_prodi),

FOREIGN KEY(id\_pendaftaran) REFERENCES PENDAFTARAN(id),

FOREIGN KEY(kode\_prodi) REFERENCES PROGRAM\_STUDI(kode)

);



|  |  |  |  |
| --- | --- | --- | --- |
| **NPM** | **Nama** | **Deskripsi Tugas** | **Kontribusi** |
| 1506730382 | Abdurrahman Saleh | Create Table, Insert Non-generated data, bikin laporan | 30% |
| 1506727330 | Farid Wajdi | Create Trigger/Stored Procedure, memperbaiki query yang salah | 30% |
| 1406574005 | Median Hardiv Nugraha | Membuat generated data, Insert generated data | 40% |