

**LATIHAN SOAL UAS**  
**BASIS DATA**

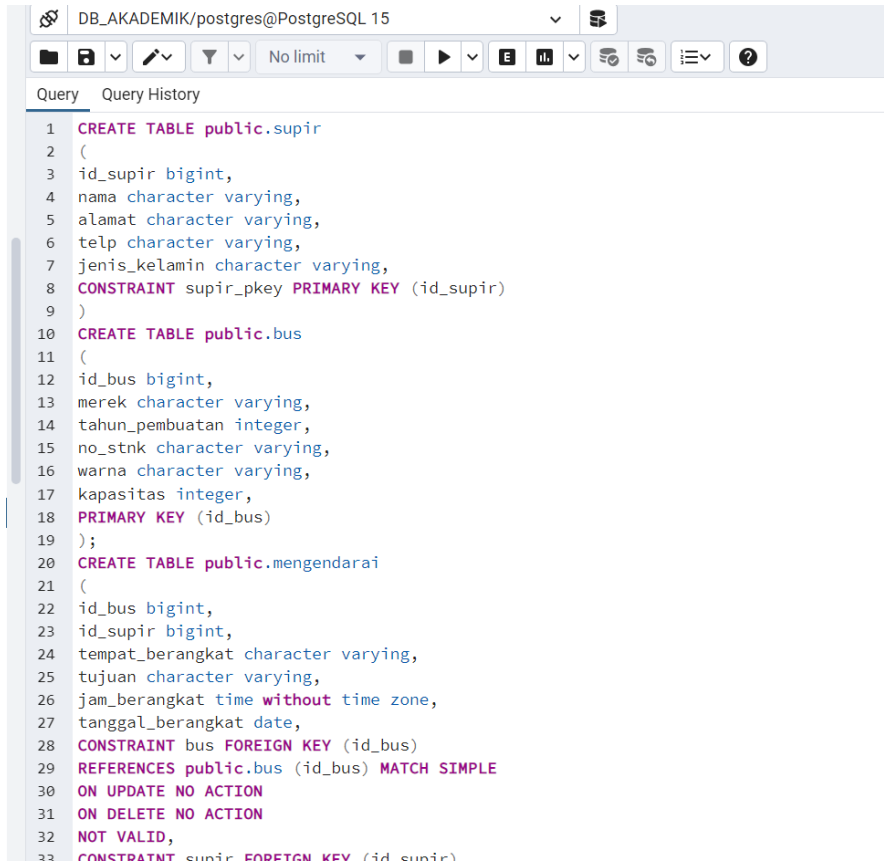


**Disusun Oleh:**

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**DEPARTEMEN TEKNIK INFORMATIKA DAN KOMPUTER**

7. Buat SQL untuk membuat semua tabel yang saling berelasi sesuai dengan skema database Supir Bus diatas. (tipe dan panjang data bebas)



```
1 CREATE TABLE public.supir
2 (
3   id_supir bigint,
4   nama character varying,
5   alamat character varying,
6   telp character varying,
7   jenis_kelamin character varying,
8   CONSTRAINT supir_pkey PRIMARY KEY (id_supir)
9 )
10 CREATE TABLE public.bus
11 (
12   id_bus bigint,
13   merek character varying,
14   tahun_pembuatan integer,
15   no_stnk character varying,
16   warna character varying,
17   kapasitas integer,
18   PRIMARY KEY (id_bus)
19 );
20 CREATE TABLE public.mengendarai
21 (
22   id_bus bigint,
23   id_supir bigint,
24   tempat_berangkat character varying,
25   tujuan character varying,
26   jam_berangkat time without time zone,
27   tanggal_berangkat date,
28   CONSTRAINT bus FOREIGN KEY (id_bus)
29     REFERENCES public.bus (id_bus) MATCH SIMPLE
30     ON UPDATE NO ACTION
31     ON DELETE NO ACTION
32     NOT VALID,
33   CONSTRAINT supir FOREIGN KEY (id_supir)
```

```
CREATE TABLE public.supir
(
  id_supir bigint,
  nama character varying,
  alamat character varying,
  telp character varying,
  jenis_kelamin character varying,
  CONSTRAINT supir_pkey PRIMARY KEY (id_supir)
)

CREATE TABLE public.bus
(
  id_bus bigint,
  merek character varying,
  tahun_pembuatan integer,
```

```

no_stnk character varying,
warna character varying,
kapasitas integer,
PRIMARY KEY (id_bus)
);

CREATE TABLE public.mengendarai
(
id_bus bigint,
id_supir bigint,
tempat_berangkat character varying,
tujuan character varying,
jam_berangkat time without time zone,
tanggal_berangkat date,
CONSTRAINT bus FOREIGN KEY (id_bus)
REFERENCES public.bus (id_bus) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE NO ACTION
NOT VALID,
CONSTRAINT supir FOREIGN KEY (id_supir)
REFERENCES public.supir (id_supir) MATCH SIMPLE
ON UPDATE NO ACTION
ON DELETE NO ACTION
NOT VALID
);

```

8. Masing-masing tabel isikan 5 baris data (isi data bebas dan sesuai).

- BUS:

```

INSERT INTO public.bus VALUES
(1, 'Mercedes', 2020, 'STNK12345', 'Hitam', 50),
(2, 'Toyota', 2019, 'STNK67890', 'Putih', 40),
(3, 'Volvo', 2021, 'STNK54321', 'Biru', 55),
(4, 'Scania', 2018, 'STNK98765', 'Merah', 45),

```

```
(5, 'Isuzu', 2022, 'STNK13579', 'Hijau', 60);
```



The screenshot shows a SQL query editor with a tab labeled 'Query'. The query is an INSERT statement into a table named 'public.bus'. It contains five rows of data, each with an ID, brand, year, license plate, color, and a numerical value. The query is as follows:

```
1 INSERT INTO public.bus VALUES
2 (1, 'Mercedes', 2020, 'STNK12345', 'Hitam', 50),
3 (2, 'Toyota', 2019, 'STNK67890', 'Putih', 40),
4 (3, 'Volvo', 2021, 'STNK54321', 'Biru', 55),
5 (4, 'Scania', 2018, 'STNK98765', 'Merah', 45),
6 (5, 'Isuzu', 2022, 'STNK13579', 'Hijau', 60);
7
```

9. Tambahkan kolom tanggal\_lahir dengan tipe data date pada tabel supir.

- ALTER TABLE public.supir



The screenshot shows a SQL query editor with a tab labeled 'Query'. The query is an ALTER TABLE statement to add a new column named 'tanggal\_lahir' to the 'public.supir' table. The query is as follows:

```
1 - ALTER TABLE public.supir
```

10. Masukkan 5 baris data tanggal lahir pada masing-masing supir tersebut.

```
UPDATE public.supir
SET tanggal_lahir='1998-08-25'
WHERE id_supir = 1;
UPDATE public.supir
SET tanggal_lahir='1996-04-05'
WHERE id_supir = 2;
UPDATE public.supir
SET tanggal_lahir='1997-01-09'
WHERE id_supir = 3;
UPDATE public.supir
SET tanggal_lahir='1994-08-15'
WHERE id_supir = 4;
UPDATE public.supir
```

```
SET tanggal_lahir='1996-08-27'
```

```
WHERE id_supir = 5;
```

Query	Query History
1	UPDATE public.supir
2	SET tanggal_lahir='1998-08-25'
3	WHERE id_supir = 1;
4	UPDATE public.supir
5	SET tanggal_lahir='1996-04-05'
6	WHERE id_supir = 2;
7	UPDATE public.supir
8	SET tanggal_lahir='1997-01-09'
9	WHERE id_supir = 3;
10	UPDATE public.supir
11	SET tanggal_lahir='1994-08-15'
12	WHERE id_supir = 4;
13	UPDATE public.supir
14	

#### 11. Hapus kolom pada tabel bus

```
ALTER TABLE public.bus DROP COLUMN warna;
```

Query	Query History
1	ALTER TABLE public.bus DROP COLUMN warna;

#### 12. Ubah panjang data kolom tujuan dari tabel Mengendarai menjadi 25 karakter.

```
ALTER TABLE public.mengendarai ALTER COLUMN tujuan TYPE  
VARCHAR(25);
```

Query	Query History
1	ALTER TABLE public.mengendarai ALTER COLUMN tujuan TYPE
2	VARCHAR(25);
3	