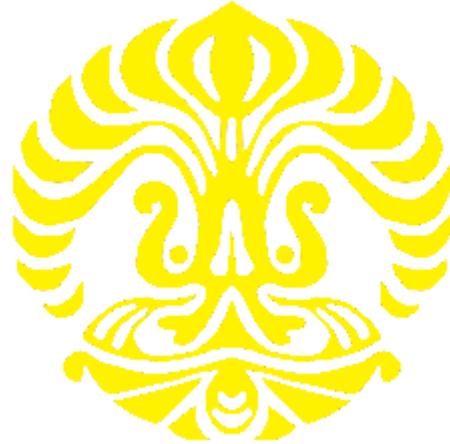


**LAPORAN TUTORIAL LAB 1
BASIS DATA**



**ALLDEN LUTHFI A.
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KELAS C**

**FAKULTAS ILMU KOMPUTER
UNIVERSITAS INDONESIA
DEPOK
2024**

Laporan Tutorial Lab 1

Basis Data

CSGE602070

Semester Genap 2023/2024



Latihan 1

1. [SQL] Soal nomor 3

- Membuat Skema Database SIMART

```
alden.luthfi=> CREATE SCHEMA SIMART;
CREATE SCHEMA
```

- Membuat Tabel PEMBELI

```
alden.luthfi=> CREATE TABLE SIMART.PEMBELI( id_pembeli VARCHAR(10) PRIMARY KEY, nama VARCHAR(100)
0) NOT NULL,
alden.luthfi(> no_telp VARCHAR(14) NOT NULL,
alden.luthfi(> email VARCHAR(50) NOT NULL,
alden.luthfi(> alamat TEXT NOT NULL,
alden.luthfi(> tanggal_lahir DATE NOT NULL,
alden.luthfi(> gender CHAR(1) NOT NULL
alden.luthfi(> );
CREATE TABLE
```

- Membuat Tabel TOKO

```
alden.luthfi=> SET search_path to SIMART;
SET
alden.luthfi=> CREATE TABLE TOKO (
alden.luthfi(> id_toko VARCHAR(10) PRIMARY KEY, nama VARCHAR(100) NOT NULL, no_telp VARCHAR(14)
NOT NULL, alamat TEXT NOT NULL
alden.luthfi(> );
CREATE TABLE
```

- Membuat Tabel KURIR

```
alden.luthfi=> CREATE TABLE KURIR (
alden.luthfi(> id_kurir VARCHAR(10) PRIMARY KEY, nama_kurir VARCHAR(100) NOT NULL, no_telp VARC
HAR(14) NOT NULL, jenis_layanan TEXT NOT NULL, nama_perusahaan VARCHAR(50) NOT NULL
alden.luthfi(> );
CREATE TABLE
```

- Membuat Tabel BRAND

```
alden.luthfi=> CREATE TABLE BRAND (
alden.luthfi(> id_brand VARCHAR(10) PRIMARY KEY, nama VARCHAR(7) NOT NULL,
alden.luthfi(> alamat TEXT NOT NULL,
alden.luthfi(> email VARCHAR(50) NOT NULL
alden.luthfi(> );
CREATE TABLE
```

- Membuat Tabel PRODUK

```
alden.luthfi=> CREATE TABLE PRODUK (
alden.luthfi(> id_produk VARCHAR(10) PRIMARY KEY,
alden.luthfi(> id_brand VARCHAR(10) NOT NULL,
alden.luthfi(> nama VARCHAR(100) NOT NULL,
alden.luthfi(> stok INTEGER NOT NULL,
alden.luthfi(> deskripsi TEXT NOT NULL,
alden.luthfi(> harga INTEGER NOT NULL,
alden.luthfi(> FOREIGN KEY (id_brand) REFERENCES BRAND (id_brand) ON UPDATE
alden.luthfi(> CASCADE ON DELETE CASCADE );
CREATE TABLE
```

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- Membuat Tabel TRANSAKSI

```
alden.luthfi=> CREATE TABLE TRANSAKSI (
alden.luthfi(> id_transaksi VARCHAR(10) PRIMARY KEY,
alden.luthfi(> id_pembeli VARCHAR(10) NOT NULL,
alden.luthfi(> id_toko VARCHAR(10) NOT NULL,
alden.luthfi(> id_kurir VARCHAR(10),
alden.luthfi(> tanggal_transaksi DATE NOT NULL,
alden.luthfi(> status VARCHAR(20) NOT NULL,
alden.luthfi(> no_resi VARCHAR(12),
alden.luthfi(> FOREIGN KEY (id_pembeli) REFERENCES PEMBELI (id_pembeli) ON UPDATE
alden.luthfi(> CASCADE ON DELETE CASCADE,
alden.luthfi(> FOREIGN KEY (id_toko) REFERENCES TOKO (id_toko) ON UPDATE CASCADE
alden.luthfi(> ON DELETE CASCADE,
alden.luthfi(> FOREIGN KEY (id_kurir) REFERENCES KURIR (id_kurir) ON UPDATE
alden.luthfi(> CASCADE ON DELETE CASCADE );
CREATE TABLE
```

- Membuat Tabel PEMBAYARAN

```
alden.luthfi=> CREATE TABLE PEMBAYARAN (
alden.luthfi(> id_pembayaran VARCHAR(10) PRIMARY KEY,
alden.luthfi(> id_pembeli VARCHAR(10) NOT NULL,
alden.luthfi(> id_transaksi VARCHAR(10) NOT NULL,
alden.luthfi(> tanggal_pembayaran DATE NOT NULL,
alden.luthfi(> nominal INTEGER NOT NULL,
alden.luthfi(> metode_pembayaran VARCHAR(50) NOT NULL,
alden.luthfi(> FOREIGN KEY (id_pembeli) REFERENCES PEMBELI (id_pembeli) ON UPDATE
alden.luthfi(> CASCADE ON DELETE CASCADE,
alden.luthfi(> FOREIGN KEY (id_transaksi) REFERENCES TRANSAKSI (id_transaksi) ON
alden.luthfi(> UPDATE CASCADE ON DELETE CASCADE );
CREATE TABLE
```

- Membuat Tabel TRANSAKSI_PRODUK

```
alden.luthfi=> CREATE TABLE TRANSAKSI_PRODUK (
alden.luthfi(> id_transaksi VARCHAR(10),
alden.luthfi(> id_produk VARCHAR(10),
alden.luthfi(> PRIMARY KEY (id_transaksi, id_produk),
alden.luthfi(> FOREIGN KEY (id_transaksi) REFERENCES TRANSAKSI (id_transaksi) ON
alden.luthfi(> UPDATE CASCADE ON DELETE CASCADE,
alden.luthfi(> FOREIGN KEY (id_produk) REFERENCES PRODUK (id_produk) ON UPDATE
alden.luthfi(> CASCADE ON DELETE CASCADE );
CREATE TABLE
```

Laporan Tutorial Lab 1

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- Membuat Tabel TOKO_PRODUK

```
alden.luthfi=> CREATE TABLE TOKO_PRODUK (
alden.luthfi(> id_toko VARCHAR(10),
alden.luthfi(> id_produk VARCHAR(10),
alden.luthfi(> PRIMARY KEY (id_toko, id_produk),
alden.luthfi(> FOREIGN KEY (id_toko) REFERENCES TOKO (id_toko) ON UPDATE CASCADE
alden.luthfi(> ON DELETE CASCADE,
alden.luthfi(> FOREIGN KEY (id_produk) REFERENCES PRODUK (id_produk) ON UPDATE
alden.luthfi(> CASCADE ON DELETE CASCADE );
CREATE TABLE
alden.luthfi=> \d
      List of relations
 Schema |        Name         | Type | Owner
-----+----------------+-----+-----
 simart | brand          | table | alden.luthfi
 simart | kurir           | table | alden.luthfi
 simart | pembayaran     | table | alden.luthfi
 simart | pembeli         | table | alden.luthfi
 simart | produk          | table | alden.luthfi
 simart | toko            | table | alden.luthfi
 simart | toko_produk    | table | alden.luthfi
 simart | transaksi       | table | alden.luthfi
 simart | transaksi_produk | table | alden.luthfi
(9 rows)
```

2. [TRIVIA] Soal nomor 4

Saat menghapus tabel yang di refer dengan foreign key tabel lain , Proses delesi bergantung kepada constraint opsi ON DELETE saat foreign key tersebut dibuat

- Mode CASCADE akan menghapuskan baris pada tabel yang di-refer dan akan menyebabkan penghapusan baris yang terkait pada tabel referensi.
- Mode SET NULL akan menghapuskan baris pada tabel yang di-refer dan akan mengubah nilai pada kolom FOREIGN KEY di tabel referensi menjadi NULL.
- Mode RESTRICT dan NO ACTION akan menyebabkan percobaan hapus baris dari tabel yang di-refer oleh tabel lain dan akan menghasilkan kesalahan constraint. Kedua mode ini mencegah penghapusan baris jika ada baris lain di tabel referensi yang bergantung pada baris tersebut melalui FOREIGN KEY.

3. [TRIVIA] Soal nomor 5

Satu tabel hanya bisa memiliki satu primary key karena primary key bersifat unik dan akan digunakan tabel lain untuk merujuk pada tabel yang memiliki primary key tersebut.

Laporan Tutorial Lab 1

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Latihan 2

1. [SQL] Soal nomor 3

- Mengisi relasi PEMBELI

```
alden.luthfi=> INSERT INTO PEMBELI VALUES ('PMB001','Daloris Beddo',08817555645,'dbeddo@gmail.com','Jl Pradah Kali Kendal I/33 A, Jawa Timur','14/05/1989','L'),
alden.luthfi-> ('PMB002','Clarabelle Mityashin',08855555530,'cmityashin@gmail.com','Jl Gemblongan IV 1, Jawa Timur','2002-08-09 00:00:00','P'),
alden.luthfi-> ('PMB003','Katey Seares',08878555645,'kseares2@yahoo.com','Jl H Amsir 10, DKI Jakarta','1987-04-03 00:00:00','P'),
alden.luthfi-> ('PMB004','Harriette Kippins',08896555395,'hkippins3@gmail.com','Jl Mampang Prapatan Raya 17 D, DKI Jakarta','15/10/1980','L'),
alden.luthfi-> ('PMB005','Davin Clemenceau',08812555364,'dclemenceau4@hotmail.com','Jl Manyar Sabrangon IX/76 F, Jawa Timur','1984-12-03 00:00:00','L'),
alden.luthfi-> ('PMB006','Rochell Cornewell',08857555064,'rcornewell5@yahoo.com','Jl Rr Fatmawati 39 ITC Fatmawati 15, DKI Jakarta','13/05/2001','L'),
alden.luthfi-> ('PMB007','Tabbi Poundsford',08818555927,'tpoundsford6@gmail.com','Jl Pancoran Brt II 4, DKI Jakarta','1999-01-12 00:00:00','L'),
alden.luthfi-> ('PMB008','Correy Castagnasso',08898555205,'ccastagnasso7@gmail.com','Jl Kapt Muslim Halvetia, Sumatera Utara','23/11/1997','L'),
alden.luthfi-> ('PMB009','Line Guirardin',08814555871,'lguirardin8@gmail.com','Jl Wonorejo I/25 A, Jawa Timur','22/12/1983','L'),
alden.luthfi-> ('PMB010','Kip Pays',08896555544,'kpays9@yahoo.com','Jl Dr Wahidin 62 B, Jawa Tengah','28/07/1993','P'),
alden.luthfi-> ('PMB011','Kathleen Gravenell',08838555682,'kgravenell@hotmail.com','Jl Marunda Baru 5, DKI Jakarta','1990-06-06 00:00:00','L'),
alden.luthfi-> ('PMB012','Brigitte Robinet',08816555389,'brobinet@gmail.com','Jl Daan Mogot Km 1/20 M, DKI Jakarta','18/08/1998','L'),
alden.luthfi-> ('PMB013','Dix Somers',0887855564,'dsomersc@gmail.com','Jl Halteut Utr 91/74, Jawa Barat','1981-02-09 00:00:00','L'),
alden.luthfi-> ('PMB014','Gonzales Wholey',088999555797,'gwholey@gmail.com','Jl Bungur Besar 8-B/F, DKI Jakarta','30/05/1998','P'),
alden.luthfi-> ('PMB015','Karilynn Aspole',08819555663,'kaspolene@hotmail.com','Jl Ibrahim Umar 11, Sumatera Utara','2002-08-03 00:00:00','P'),
alden.luthfi-> ('PMB016','Selinda Cockett',08838555658,'scockett@yahoo.com','Jl Bratang Gede VI B/29, Jawa Timur','1996-12-02 00:00:00','P'),
alden.luthfi-> ('PMB017','Reddi Carnoghan',08816555488,'rcarnoghan@yahoo.com','Jl Tebet Brt VIII/23, DKI Jakarta','25/02/2005','P'),
alden.luthfi-> ('PMB018','Trev Domingus',088999555722,'tdomingus@gmail.com','Jl Bali Matraman 15, DKI Jakarta','31/10/1980','L'),
alden.luthfi-> ('PMB019','Joice Wimpress',08878555350,'jwimpres@gmail.com','Jl Gaharu Raya 44 RT 001/08, Jawa Tengah','28/05/1991','P'),
alden.luthfi-> ('PMB020','Cameron Swann',08852555349,'cswannj@gmail.com','Jl Damokali 22-24 Flat 5 T, Jawa Timur','29/01/1993','L'),
alden.luthfi-> ('PMB021','Roxi D'Emaneule',08854555920,'rdemanuelek@gmail.com','Jl Prof M Yamin SH 15 M, Sumatera Utara','14/09/2002','P'),
alden.luthfi-> ('PMB022','Care Sevier',08838555410,'csevier@yahoo.com','Kompl Gading Lestari E/3-21, DKI Jakarta','18/10/2001','L'),
alden.luthfi-> ('PMB023','Ryan Paulmann',08838555676,'rpaulmann@hotmail.com','Jl Raya Perumnas Antang 14, Sulawesi Selatan','28/07/1998','L'),
alden.luthfi-> ('PMB024','Jed Madigan',08898555070,'jedmadigan@hotmail.com','Jl Teladan 15, Sumatera Utara','1984-08-09 00:00:00','L'),
alden.luthfi-> ('PMB025','Maxim Disney',08856555019,'mdisney@yahoo.com','Jl Pasar Inpres Ciracas 11-12, DKI Jakarta','2001-09-04 00:00:00','P'),
alden.luthfi-> ('PMB026','Joe Coddington',088785555412,'jcoddingtonp@gmail.com','Jl Kraman Bunder 33, DKI Jakarta','28/09/1993','L'),
alden.luthfi-> ('PMB027','Darcey Crashaway',088999555880,'dcrashaway@yahoo.com','Jl Sukareksa V 72, Jawa Barat','1992-04-07 00:00:00','P'),
alden.luthfi-> ('PMB028','Holden Dellow',08855555792,'jholloway@yahoo.com','Kompl Tmn Setiabudi Indah Bl PP/57-A, Sumatera Utara','15/07/1981','L'),
alden.luthfi-> ('PMB029','Bobinette Champneys',088985555138,'bchampneys@gmail.com','Jl Jepara I 12, Jawa Timur','15/04/1980','P'),
alden.luthfi-> ('PMB030','Malena Di Biaggi',08814555746,'mdit@mail.com','Jl Bintaro Utama Iii A Plaza Bintaro Jaya Bl M/18, DKI Jakarta','15/03/2004','L'),
alden.luthfi-> ('PMB031','Ryan Cullford',088785555401,'rcullrfordu@gmail.com','Jl Gayung Kebonsari IX/32, Jawa Timur','24/12/1996','P'),
alden.luthfi-> ('PMB032','Torrin Legionidec',08814555373,'tlegionidec@yahoo.com','Jl Pajagalan 16, Jawa Barat','29/11/1997','L'),
alden.luthfi-> ('PMB033','Candide Fagg',08858555542,'cfagg@hotmail.com','Jl Guru Sudedaves 15, DKI Jakarta','20/08/2003','P'),
alden.luthfi-> ('PMB034','Jim Thirlwell',08818555270,'jthirlwellx@yahoo.com','Jl Sekip I Bl 26/A-28, Jawa Timur','27/06/2005','P'),
alden.luthfi-> ('PMB035','Lisle Dunkerly',088999555656,'ldunkerly@yahoo.com','Jl Kalisari I Bl 26/A-28, Jawa Timur','19/08/1984','P'),
alden.luthfi-> ('PMB036','Rooney Lucas',088985555096,'rlucasz@hotmail.com','Jl D-4 No. 8 Kel. Kebon Baru Kec. Tebet Jakarta, DKI Jakarta','13/03/2000','L'),
alden.luthfi-> ('PMB037','Camille Elletton',088785555043,'celleton10@hotmail.com','Jl Rungkut Industri IV 26 Kawasan SIER, Jawa Timur','1986-08-06 00:00:00','P'),
alden.luthfi-> ('PMB038','Catherine Yardley',08858555567,'cyardley11@gmail.com','Jl. Cihampelas No 56 B, Jawa Barat','17/03/1996','P'),
alden.luthfi-> ('PMB039','Andras Menezes',088599555288,'amenezes12@gmail.com','Jl Cimandiri 6, DKI Jakarta','1984-02-12 00:00:00','L'),
alden.luthfi-> ('PMB040','Lucas Timbridge',081111222333,'ltimbridge13@cargo collective.com','Jl Kelasi 1-3, Jawa Timur','17/02/1996','L');
INSERT 0 40
```

- Mengisi relasi TOKO

```
alden.luthfi=> INSERT INTO TOKO VALUES ('TOKO001','Fadel, Prohaska and Becker', '021-85902855', 'Jl Bendungan Hilir Raya Bl G-1/7, Dki Jakarta'),
alden.luthfi-> ('TOKO002','Stark, Reynolds and Schiller', '021-5709212', 'Jl Tajem Maguwoharjo IX 110, Jawa Tengah'),
alden.luthfi-> ('TOKO003','Bartolotti-Grant', '021-3514417', 'Jl Raya Srengseng 109, Dki Jakarta'),
alden.luthfi-> ('TOKO004','Ankunding-Hoppe', '021-1311194', 'Jl Pelita II Bl A/30-32, Sumatera Barat'),
alden.luthfi-> ('TOKO005','Bernhard-Crona', '021-3589040', 'Jl Brigjen Katamso Km5,1 49, Sumatera Barat'),
alden.luthfi-> ('TOKO006','Wiza-Osinski', '021-872972', 'Jl Arteri Mangga Dua Raya Harco Mangga Dua Bl L/17, Dki Jakarta'),
alden.luthfi-> ('TOKO007','Dach-Murphy', '021-3996655', 'Jl Otto Iskandarindata III 27, Dki Jakarta'),
alden.luthfi-> ('TOKO008','Waelchi, Goyette and Hyatt', '021-6030125', 'Jl Tebet Brt Dlm VII C/9, Dki Jakarta'),
alden.luthfi-> ('TOKO009','Zieme and Sons', '021-6312881', 'Jl Cikini Raya 90, Dki Jakarta'),
alden.luthfi-> ('TOKO010','Brekke-Daugherty', '021-6458476', 'Jl Mustang 46, Jawa Barat');
INSERT 0 10
```

- Mengisi relasi KURIR

```
alden.luthfi=> INSERT INTO KURIR VALUES ('KUR001','Almira Rahimah',081111222333,'SAME_DAY','JNE'),
alden.luthfi-> ('KUR002','Jagaraga Prasetyo',081234567890,'NEXT_DAY','TIKI'),
alden.luthfi-> ('KUR003','Cahyanto Hardiansyah',087654321098,'REGULER','Pos Indonesia'),
alden.luthfi-> ('KUR004','Widya Hasanah',081111222333,'REGULER','JNE'),
alden.luthfi-> ('KUR005','Mustika Ramadan',081234567890,'NEXT_DAY','Anteraja'),
alden.luthfi-> ('KUR006','Banawi Irawan',087654321098,'SAME_DAY','Anteraja'),
alden.luthfi-> ('KUR007','Warsita Dongoran',081111222333,'SAME_DAY','Pos Indonesia'),
alden.luthfi-> ('KUR008','Rusman Prakasa',081234567890,'REGULER','JNE'),
alden.luthfi-> ('KUR009','Darsirah Wijaya',087654321098,'REGULER','JBT Express'),
alden.luthfi-> ('KUR010','Jarwi Pranowo',081111222333,'NEXT_DAY','JNE'),
alden.luthfi-> ('KUR011','Balanggi Jailani',085430172820,'REGULER','TIKI'),
alden.luthfi-> ('KUR012','Akarsana Situmorang',084551802662,'NEXT_DAY','JNE'),
alden.luthfi-> ('KUR013','Kawaya Widodo',081414872968,'REGULER','Pos Indonesia'),
alden.luthfi-> ('KUR014','Sakura Widiasuti',081836762704,'REGULER','Pos Indonesia'),
alden.luthfi-> ('KUR015','Sakura Handayani',081438198883,'REGULER','JBT Express'),
alden.luthfi-> ('KUR016','Diana Susanti',081684545781,'SAME_DAY','Anteraja'),
alden.luthfi-> ('KUR017','Cengkal Marpaung',084437697707,'NEXT_DAY','TIKI'),
alden.luthfi-> ('KUR018','Dartono Latupono',084319934032,'NEXT_DAY','Anteraja'),
alden.luthfi-> ('KUR019','Farhunnisa Aryani',084529491412,'NEXT_DAY','JNE'),
alden.luthfi-> ('KUR020','Marsudi Prabowo',08317438823,'NEXT_DAY','JNE');
INSERT 0 20
```

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• Mengisi relasi BRAND

```
alden.luthfi=> INSERT INTO BRAND VALUES ('BRND01','Samsung','JL. K. H Agus Salim No. 11, Samarinda','samsung.idn@gmail.com'),  
alden.luthfi=> ('BRND02','Xiaomi','Jl MH Thamrin Kav 28-30 Plaza, DKI Jakarta','xiaomi123@gmail.com'),  
alden.luthfi=> ('BRND03','OPPO','Jl Jatinegara Barat 122, DKI Jakarta','oppoIndonesia@gmail.com'),  
alden.luthfi=> ('BRND04','VIVO','Jl H Ramli 15 Menteng Dalam, DKI Jakarta','vivo2023.idn@gmail.com');  
INSERT 0 4
```

• Mengisi relasi PRODUK

```
alden.luthfi=> INSERT INTO PRODUK VALUES ('PRD001','BRND01','Samsung Galaxy S21',600,'Burn of first deg mult sites of head, face, and neck',1100000),  
alden.luthfi=> ('PRD002','BRND01','Samsung Galaxy S20',706,'Nondisp fx of lateral condyle of left humerus, sequela',8300000),  
alden.luthfi=> ('PRD003','BRND02','Xiaomi Redmi Note 9',324,'Contusion of right middle finger w damage to nail, subs',1800000),  
alden.luthfi=> ('PRD004','BRND03','OPPO Reno 5',609,'Twin preg, unsp num plcna & amnio sacs, first trimester',6600000),  
alden.luthfi=> ('PRD005','BRND04','Vivo V20',509,'Ankylosis, left shoulder',2700000),  
alden.luthfi=> ('PRD006','BRND04','Vivo V19',445,'Drown due to fall off (nonpowered) inflatable craft, subs',4900000),  
alden.luthfi=> ('PRD007','BRND01','Samsung Galaxy M21',66,'Type II occipital condyle fracture, right side, 7thG',5300000),  
alden.luthfi=> ('PRD008','BRND02','Xiaomi Mi 11',75,'Severe persistent asthma, uncomplicated',8800000),  
alden.luthfi=> ('PRD009','BRND02','Xiaomi Mi 10',658,'Other osteonecrosis of left radius',4100000),  
alden.luthfi=> ('PRD010','BRND02','Xiaomi Mi 9',88,'Strain ms/lnd lng extn msl toe at ank/ft lev, l foot, sqa',1000000),  
alden.luthfi=> ('PRD011','BRND02','Xiaomi Poco X3',937,'Open bite of right index finger w/o damage to nail, subs',3300000),  
alden.luthfi=> ('PRD012','BRND01','Samsung Galaxy Note 20',917,'Subluxation of T4/T5 thoracic vertebra, subsequent encounter',8700000),  
alden.luthfi=> ('PRD013','BRND01','Samsung Galaxy Note 20',917,'Subluxation of T4/T5 thoracic vertebra, subsequent encounter',8700000),  
alden.luthfi=> ('PRD014','BRND04','Vivo V21',731,'Lacerat intrns musc/fasc/tend r idx fngr at wrs/hnd lv, init',7400000),  
alden.luthfi=> ('PRD015','BRND01','Samsung Galaxy M21',678,'Abrasion of left elbow, initial encounter',4700000),  
alden.luthfi=> ('PRD016','BRND01','Samsung Galaxy Note 20',840,'Displ seg fx shaft of ulna, l arm, 7thC',6100000),  
alden.luthfi=> ('PRD017','BRND01','Samsung Galaxy Note 10',840,'Displ seg fx shaft of ulna, l arm, 7thC',6100000),  
alden.luthfi=> ('PRD018','BRND01','Samsung Galaxy Note 9',204,'Other injury of rectum, initial encounter',7400000),  
alden.luthfi=> ('PRD019','BRND01','Samsung Galaxy Z Fold 2',810,'Liver & biliary tract disord in preg, chldbrth and the puerp',8300000),  
alden.luthfi=> ('PRD020','BRND02','Xiaomi Poco X3 NFC',376,'Rheumatoid arthritis, unspecified',6000000),  
alden.luthfi=> ('PRD021','BRND02','Xiaomi Poco M3',514,'Unsp fracture of shaft of left fibula, undetermined',6200000),  
alden.luthfi=> ('PRD022','BRND03','OPPO Reno 4',46,'Toxic effect of contact w oth venomous plant, undetermined',5700000),  
alden.luthfi=> ('PRD023','BRND03','OPPO Reno 3',993,'Congenital malformation of skin, unspecified',5700000),  
alden.luthfi=> ('PRD024','BRND03','OPPO Find X3 Pro',881,'Unsp inj intrinsic musc/fasc/tend thmb at wrs/hnd lv, subs',5800000),  
alden.luthfi=> ('PRD025','BRND03','OPPO Find X2 Pro',817,'0th comp of fb acc left in body fol kidney dialysis, subs',1600000);  
INSERT 0 25
```

• Mengisi relasi TRANSAKSI

```
alden.luthfi=> INSERT INTO TRANSAKSI VALUES ('TRK001','PMB017','TOK003',NULL,'2024-02-02 00:00:00','Menunggu Pembayaran',NULL),  
alden.luthfi=> ('TRK002','PMB027','TOK006','KUR008','2023-08-23 00:00:00','Diproses',7704555208),  
alden.luthfi=> ('TRK003','PMB009','KUR012','2023-05-03 00:00:00','Dikirim',2663162069),  
alden.luthfi=> ('TRK004','PMB028','TOK004','KUR013','2023-04-02 00:00:00','Diterima Pembeli',2383577286),  
alden.luthfi=> ('TRK005','PMB006','TOK007','KUR001','2023-04-03 00:00:00','Selesai',6906674898),  
alden.luthfi=> ('TRK006','PMB016','TOK010','KUR018','2023-05-20 00:00:00','Diproses',5377993867),  
alden.luthfi=> ('TRK007','PMB022','TOK002','KUR006','2023-07-03 00:00:00','Dikirim',6255101854),  
alden.luthfi=> ('TRK008','PMB003','TOK008','KUR004','2023-09-13 00:00:00','Diterima Pembeli',3845252891),  
alden.luthfi=> ('TRK009','PMB015','TOK001','KUR019','2023-04-19 00:00:00','Selesai',2522212062),  
alden.luthfi=> ('TRK010','PMB034','TOK005','KUR003','2023-11-22 00:00:00','Dikirim',2272507738),  
alden.luthfi=> ('TRK011','PMB008','TOK004','KUR014','2023-06-24 00:00:00','Diproses',8231556548),  
alden.luthfi=> ('TRK012','PMB014','TOK002','KUR016','2023-04-09 00:00:00','Dikirim',5136787081),  
alden.luthfi=> ('TRK013','PMB021','TOK001','KUR011','2023-10-31 00:00:00','Diterima Pembeli',1661762058),  
alden.luthfi=> ('TRK014','PMB018','TOK001','KUR020','2023-09-20 00:00:00','Selesai',1611335178),  
alden.luthfi=> ('TRK015','PMB038','TOK007','NULL','2023-07-09 00:00:00','Menunggu Pembayaran',NULL),  
alden.luthfi=> ('TRK016','PMB020','TOK005','KUR007','2023-07-18 00:00:00','Diproses',9664347052),  
alden.luthfi=> ('TRK017','PMB025','TOK008','KUR002','2023-03-17 00:00:00','Dikirim',8049948160),  
alden.luthfi=> ('TRK018','PMB036','TOK003','KUR017','2023-11-29 00:00:00','Diterima Pembeli',2208161430),  
alden.luthfi=> ('TRK019','PMB001','TOK009','KUR015','2023-05-29 00:00:00','Selesai',2865632765),  
alden.luthfi=> ('TRK020','PMB013','TOK006','KUR009','2023-03-11 00:00:00','Diproses',3887855764),  
alden.luthfi=> ('TRK021','PMB026','TOK010','KUR010','2023-08-28 00:00:00','Dikirim',9712316717),  
alden.luthfi=> ('TRK022','PMB039','TOK002','KUR008','2024-01-01 00:00:00','Diterima Pembeli',2077426802),  
alden.luthfi=> ('TRK023','PMB030','TOK008','KUR012','2023-06-18 00:00:00','Selesai',5229787843),  
alden.luthfi=> ('TRK024','PMB009','TOK005','KUR013','2023-06-19 00:00:00','Diproses',8783677743);  
INSERT 0 24
```

• Mengisi relasi PEMBAYARAN

```
alden.luthfi=> INSERT INTO PEMBAYARAN VALUES ('PMBY001','PMB027','TRK002','2023-08-23 00:00:00',1800000,'E-Wallet'),  
alden.luthfi=> ('PMBY002','PMB011','TRK003','2023-05-04 00:00:00',6100000,'Kartu Kredit'),  
alden.luthfi=> ('PMBY003','PMB028','TRK004','2023-04-01 00:00:00',1100000,'Transfer Bank'),  
alden.luthfi=> ('PMBY004','PMB006','TRK005','2023-04-03 00:00:00',6600000,'Kartu Debit'),  
alden.luthfi=> ('PMBY005','PMB016','TRK006','2023-05-20 00:00:00',2700000,'Virtual Account'),  
alden.luthfi=> ('PMBY006','PMB022','TRK007','2023-07-03 00:00:00',6000000,'Kartu Debit'),  
alden.luthfi=> ('PMBY007','PMB022','TRK007','2023-09-13 00:00:00',1000000,'Transfer Bank'),  
alden.luthfi=> ('PMBY008','PMB015','TRK009','2023-04-20 00:00:00',3000000,'E-Wallet'),  
alden.luthfi=> ('PMBY009','PMB034','TRK010','2023-11-22 00:00:00',4900000,'Kartu Kredit'),  
alden.luthfi=> ('PMBY010','PMB008','TRK011','2023-06-24 00:00:00',8300000,'Kartu Kredit'),  
alden.luthfi=> ('PMBY011','PMB014','TRK012','2023-04-09 00:00:00',3300000,'Virtual Account'),  
alden.luthfi=> ('PMBY012','PMB021','TRK013','2023-10-31 00:00:00',6200000,'Transfer Bank'),  
alden.luthfi=> ('PMBY013','PMB018','TRK014','2023-09-21 00:00:00',17100000,'E-Wallet'),  
alden.luthfi=> ('PMBY014','PMB020','TRK016','2023-07-18 00:00:00',5300000,'Kartu Debit'),  
alden.luthfi=> ('PMBY015','PMB025','TRK017','2023-03-18 00:00:00',4000000,'Kartu Kredit'),  
alden.luthfi=> ('PMBY016','PMB036','TRK018','2023-11-30 00:00:00',4100000,'Virtual Account'),  
alden.luthfi=> ('PMBY017','PMB001','TRK019','2023-05-29 00:00:00',3300000,'Transfer Bank'),  
alden.luthfi=> ('PMBY018','PMB013','TRK020','2023-03-11 00:00:00',8700000,'Kartu Debit'),  
alden.luthfi=> ('PMBY019','PMB026','TRK021','2023-08-28 00:00:00',8800000,'E-Wallet'),  
alden.luthfi=> ('PMBY020','PMB039','TRK022','2024-01-02 00:00:00',7400000,'Virtual Account'),  
alden.luthfi=> ('PMBY021','PMB030','TRK023','2023-06-18 00:00:00',3000000,'Transfer Bank'),  
alden.luthfi=> ('PMBY022','PMB009','TRK024','2023-06-19 00:00:00',5800000,'Kartu Kredit');  
INSERT 0 22
```

Laporan Tutorial Lab 1

Basis Data

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- Mengisi relasi TRANSAKSI_PRODUK

```
alden.luthfi→ INSERT INTO TRANSAKSI_PRODUK VALUES ('TRK001','PRD022'),  
alden.luthfi→ ('TRK002','PRD003'),  
alden.luthfi→ ('TRK003','PRD017'),  
alden.luthfi→ ('TRK004','PRD001'),  
alden.luthfi→ ('TRK005','PRD004'),  
alden.luthfi→ ('TRK006','PRD005'),  
alden.luthfi→ ('TRK007','PRD011'),  
alden.luthfi→ ('TRK007','PRD005'),  
alden.luthfi→ ('TRK008','PRD010'),  
alden.luthfi→ ('TRK009','PRD013'),  
alden.luthfi→ ('TRK010','PRD006'),  
alden.luthfi→ ('TRK011','PRD019'),  
alden.luthfi→ ('TRK012','PRD011'),  
alden.luthfi→ ('TRK013','PRD022'),  
alden.luthfi→ ('TRK014','PRD008'),  
alden.luthfi→ ('TRK014','PRD002'),  
alden.luthfi→ ('TRK015','PRD019'),  
alden.luthfi→ ('TRK016','PRD007'),  
alden.luthfi→ ('TRK017','PRD013'),  
alden.luthfi→ ('TRK017','PRD010'),  
alden.luthfi→ ('TRK018','PRD009'),  
alden.luthfi→ ('TRK019','PRD011'),  
alden.luthfi→ ('TRK020','PRD012'),  
alden.luthfi→ ('TRK021','PRD008'),  
alden.luthfi→ ('TRK022','PRD005'),  
alden.luthfi→ ('TRK022','PRD015'),  
alden.luthfi→ ('TRK023','PRD013'),  
alden.luthfi→ ('TRK024','PRD024');  
INSERT 0 28
```

- Mengisi relasi TOKO_PRODUK

```
alden.luthfi→ INSERT INTO TOKO_PRODUK VALUES ('TOK0001','PRD013'),  
alden.luthfi→ ('TOK0001','PRD017'),  
alden.luthfi→ ('TOK0001','PRD008'),  
alden.luthfi→ ('TOK0001','PRD023'),  
alden.luthfi→ ('TOK0001','PRD021'),  
alden.luthfi→ ('TOK0001','PRD002'),  
alden.luthfi→ ('TOK0002','PRD015'),  
alden.luthfi→ ('TOK002','PRD011'),  
alden.luthfi→ ('TOK0002','PRD005'),  
alden.luthfi→ ('TOK0003','PRD016'),  
alden.luthfi→ ('TOK0003','PRD022'),  
alden.luthfi→ ('TOK0003','PRD025'),  
alden.luthfi→ ('TOK0003','PRD009'),  
alden.luthfi→ ('TOK0003','PRD020'),  
alden.luthfi→ ('TOK0004','PRD001'),  
alden.luthfi→ ('TOK0004','PRD019'),  
alden.luthfi→ ('TOK0005','PRD018'),  
alden.luthfi→ ('TOK0005','PRD007'),  
alden.luthfi→ ('TOK0005','PRD006'),  
alden.luthfi→ ('TOK0005','PRD024'),  
alden.luthfi→ ('TOK0005','PRD010'),  
alden.luthfi→ ('TOK0005','PRD014'),  
alden.luthfi→ ('TOK0006','PRD004'),  
alden.luthfi→ ('TOK0006','PRD003'),  
alden.luthfi→ ('TOK0006','PRD012'),  
alden.luthfi→ ('TOK0006','PRD016'),  
alden.luthfi→ ('TOK0007','PRD025'),  
alden.luthfi→ ('TOK0007','PRD004'),  
alden.luthfi→ ('TOK0007','PRD019'),  
alden.luthfi→ ('TOK0007','PRD023'),  
alden.luthfi→ ('TOK0007','PRD009'),  
alden.luthfi→ ('TOK0008','PRD007'),  
alden.luthfi→ ('TOK0008','PRD013'),  
alden.luthfi→ ('TOK0008','PRD015'),  
alden.luthfi→ ('TOK0008','PRD010'),  
alden.luthfi→ ('TOK0009','PRD012'),  
alden.luthfi→ ('TOK0009','PRD002'),  
alden.luthfi→ ('TOK0009','PRD006'),  
alden.luthfi→ ('TOK0009','PRD017'),  
alden.luthfi→ ('TOK0009','PRD011'),  
alden.luthfi→ ('TOK0010','PRD008'),  
alden.luthfi→ ('TOK0010','PRD005'),  
alden.luthfi→ ('TOK0010','PRD022'),  
alden.luthfi→ ('TOK0010','PRD014');  
INSERT 0 44
```

2. [TRIVIA] Soal nomor 4

Terdapat sintaks DEFAULT saat pembuatan tabel, sehingga pengguna basis data bisa mendefinisikan nilai default. contoh:

Laporan Tutorial Lab 1
Basis Data
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Unset

```
CREATE TABLE PRODUCTS (
    Product_no INT,
    Name VARCHAR(10) NOT NULL,
    Price INT DEFAULT 0
);
```

Laporan Tutorial Lab 1

Basis Data

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Semester Genap 2023/2024



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Latihan 3

1. [SQL] Soal nomor 1 dan 2

- Struktur definisi dan isi tabel PEMBELI

```
alden.luthfi=> \d PEMBELI
          Table "simart.pembeli"
  Column | Type        | Collation | Nullable | Default
-----+-----+-----+-----+-----+
id_pembeli | character varying(10) | not null |
nama | character varying(100) | not null |
no_telp | character varying(14) | not null |
email | character varying(50) | not null |
alamat | text | not null |
tanggal_lahir | date | not null |
gender | character(1) | not null |

Indexes:
  "pembeli_pkey" PRIMARY KEY, btree (id_pembeli)
Referenced by:
  TABLE "pembayaran" CONSTRAINT "pembayaran_id_pembeli_fkey" FOREIGN KEY (id_pembeli) REFERENCES pembeli(id_pembeli) ON UPDATE CASCADE ON DELETE CASCADE
  TABLE "transaksi" CONSTRAINT "transaksi_id_pembeli_fkey" FOREIGN KEY (id_pembeli) REFERENCES pembeli(id_pembeli) ON UPDATE CASCADE ON DELETE CASCADE

alden.luthfi=> SELECT * FROM PEMBELI;
 id_pembeli | nama | no_telp | email | alamat | tanggal_lahir | gender
-----+-----+-----+-----+-----+-----+-----+
PMB001 | Daloris Beddo | 8817555645 | dbeddo@gmail.com | Jl Pradah Kali Kendal I/33 A, Jawa Timur | 1989-05-14 | L
PMB002 | Clarabell Mityashin | 8855555530 | cmityashin@gmail.com | Jl Gembongan IV 1, Jawa Timur | 2002-08-09 | P
PMB003 | Katie Seares | 8878555645 | kseares2@yahoo.com | Jl H Amirsir 10, DKI Jakarta | 1987-04-03 | P
PMB004 | Harriette Kippins | 8896555395 | hkippins3@gmail.com | Jl Mampang Prapatan Raya 17 D, DKI Jakarta | 1980-10-15 | L
PMB005 | Davin Clemenceau | 8812555364 | dclemenceau4@hotmail.com | Jl Manyar Sabrangani IX/76 F, Jawa Timur | 1984-12-03 | L
PMB006 | Rochell Cornewell | 8875555064 | rcornewell5@yahoo.com | Jl RS Fatmawati 39 ITC Fatmawati 175, DKI Jakarta | 2001-05-13 | L
PMB007 | Tabbi Poundsford | 8818555927 | tpoundsford6@gmail.com | Jl Pancoran Brt II 4, DKI Jakarta | 1999-01-12 | L
PMB008 | Correya Castagnasso | 8898555205 | ccastagnasso@gmail.com | Jl Kaki Muslim Halvetia, Sumatera Utara | 1997-11-23 | L
PMB009 | Lina Guirardin | 8814555871 | lguirardin8@gmail.com | Jl Wonorejo I/25 A, Jawa Timur | 1983-12-22 | L
PMB010 | Kip Pays | 8896555489 | kpays9@yahoo.com | Jl D Wahidin 62 B, Jawa Tengah | 1993-07-28 | P
PMB011 | Kathleen Gravenell | 8838555682 | kgravenella@hotmail.com | Jl Marunda Baru 5, DKI Jakarta | 1990-06-06 | L
PMB012 | Brigitte Robinet | 8816555389 | brrobinet6@gmail.com | Jl Daan Mogot Km 1/20 M, DKI Jakarta | 1998-08-18 | L
PMB013 | Dix Somers | 8878555864 | dsomersc@gmail.com | Jl Halteu Utr 91/74, Jawa Barat | 1981-02-09 | L
PMB014 | Gonzales Whooley | 8899555779 | gwhooley6@gmail.com | Jl Bungur Besar 87-B/F, DKI Jakarta | 1998-05-30 | P
PMB015 | Karilynn Aspole | 8819555663 | kaspolee@hotmail.com | Jl Ibrahim Umar 11, Sumatera Utara | 2002-08-03 | P
PMB016 | Selinda Cockett | 8838555658 | scockett6@yahoo.com | Jl Bratang Gede VI 8/29, Jawa Timur | 1996-12-02 | P
PMB017 | Redd Carnoghan | 8816555488 | rcarnoghan@yahoo.com | Jl Tebet Brt VIII/23, DKI Jakarta | 2005-02-25 | P
PMB018 | Trev Domingues | 8899555722 | tdomingues@gmail.com | Jl Bakri Matraman 15, DKI Jakarta | 1980-10-31 | L
PMB019 | Joice Wimpress | 887855530 | jwimpresia@gmail.com | Jl Gaharu Raya 44 RT 001/08, Jawa Tengah | 1991-05-28 | P
PMB020 | Cameron Swann | 8825555349 | cswannj@gmail.com | Jl Darmokali 22-24 Flat 5 T, Jawa Timur | 1993-01-29 | L
PMB021 | Roxi D'Emanuele | 8854555920 | rdemanuele@gmail.com | Jl Prof M Yamin SH 15 M, Sumatera Utara | 2002-09-14 | P
PMB022 | Cara Sevier | 8838555410 | csevierl@yahoo.com | Kompl Gading Griya Lestari Bl E-3/21, DKI Jakarta | 2001-10-18 | L
PMB023 | Ryan Paulmann | 8838555676 | rpaulmann6@hotmail.com | Jl Raya Perumans Antang 14, Sulawesi Selatan | 1998-07-28 | L
PMB024 | Jed Madigan | 8898555074 | jmadiagan9@hotmail.com | Jl Teladan 15, Sumatera Utara | 1984-08-09 | L
PMB025 | Maxim Disney | 8856555019 | mdisneyo@yahoo.com | Jl Pasar Impres Ciracas 11-12, DKI Jakarta | 2001-09-04 | P
PMB026 | Joe Coddington | 88785555412 | jcoddingtonnp@gmail.com | Jl Kramat Bundek 33, DKI Jakarta | 1993-09-28 | L
PMB027 | Darcey Crawshaw | 8899555880 | dcrawshaw4@yahoo.com | Jl Sukaresik V 72, Jawa Barat | 1992-04-27 | P
PMB028 | Holden Dellow | 8855555792 | hdellowr@yahoo.com | Kompl Tmn Setiabudi Indah Bl PP/57-A, Sumatera Utara | 1981-07-15 | L
PMB029 | Bobinette Champneys | 8898555138 | bchampneys@gmail.com | Jl Jepara I 12, Jawa Timur | 1980-04-15 | P
PMB030 | Malena Di Biaggi | 8814555746 | mdi1@gmail.com | Jl Bintaro Utama Iii A Plaza Bintaro Jaya Bl M/18, DKI Jakarta | 2004-03-15 | L
PMB031 | Ryan Cullrford | 8878555401 | rcullrford6@gmail.com | Jl Gayung Kebonsari IX/32, Jawa Timur | 1996-12-24 | P
PMB032 | Torrin Legonidec | 8814555373 | tlegonidec@yahoo.com | Jl Pajagalan 14-16, Jawa Barat | 1997-11-29 | L
PMB033 | Candide Fagg | 8858555542 | cfagg6@hotmail.com | Jl Gusru Ledetavas 15, DKI Jakarta | 2003-08-20 | P
PMB034 | Jim Thirlwell | 8818555270 | jthirlwell6@yahoo.com | Jl Sekip 15, Sumatera Utara | 2005-06-27 | P
PMB035 | Lisle Dunkerly | 8899555656 | ldunkerlyy@yahoo.com | Jl Kalisari I Bl 26/A-28, Jawa Timur | 1984-08-19 | P
PMB036 | Rooney Lucas | 8898555096 | rlucas2@hotmail.com | Jl D-4 No. 8 Kel. Kebon Baru Kec. Tebet Jakarta, DKI Jakarta | 2000-03-13 | L
PMB037 | Camille Elleton | 8878555043 | celleton10@hotmail.com | Jl Rungkut Industri IV 26 Kawasan SIER, Jawa Timur | 1986-08-06 | P
PMB038 | Cathrine Yardley | 8858555567 | cyardley11@gmail.com | Jl. Cihampelas No. 56 B, Jawa Barat | 1996-03-17 | P
PMB039 | Andras Menezes | 8859555288 | amenezes12@gmail.com | Jl Cimandiri 6, DKI Jakarta | 1984-02-12 | L
PMB040 | Lucas Timbridge | 811122333 | ltimbridge13@cargocollective.com | Jl Kelasi 1-3, Jawa Timur | 1996-02-17 | L
(40 rows)
```

Laporan Tutorial Lab 1

Basis Data

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- Struktur definisi dan isi tabel TOKO

```
alden.luthfi=> \d TOKO
                                         Table "simart.toko"
  Column |      Type       | Collation | Nullable | Default
  _____+_____+_____+_____+_____
id_toko | character varying(10) |          | not null |
  nama  | character varying(100) |          | not null |
no_telp | character varying(14) |          | not null |
  alamat | text            |          | not null |
Indexes:
  "toko_pkey" PRIMARY KEY, btree (id_toko)
Referenced by:
  TABLE "toko_produk" CONSTRAINT "toko_produk_id_toko_fkey" FOREIGN KEY (id_toko) REFERENCES toko(id_toko) ON UPDATE CASCADE ON DELETE CASCADE
  TABLE "transaksi" CONSTRAINT "transaksi_id_toko_fkey" FOREIGN KEY (id_toko) REFERENCES toko(id_toko) ON UPDATE CASCADE ON DELETE CASCADE

alden.luthfi=> SELECT * FROM TOKO;
   id_toko |        nama        | no_telp |           alamat
  _____+_____+_____+_____
TOKO001 | Fadel, Prohaska and Becker | 021-85902855 | JL Bendungan Hilir Raya Bl G-1//, Dki Jakarta
TOKO002 | Stark, Reynolds and Schiller | 021-5709212 | Jl Tajem Maguwoharjo IX 110, Jawa Tengah
TOKO003 | Bartoletti-Grant | 021-3514417 | Jl Raya Srengseng 109, Dki Jakarta
TOKO004 | Ankunding-Hoppe | 021-1311194 | Jl Pelita II Bl A/30-32, Sumatera Barat
TOKO005 | Bernhard-Crona | 021-3589040 | Jl Brigjen Katamso Km5,1 49, Sumatera Barat
TOKO006 | Wiza-Osinski | 021-8702792 | Jl Arteri Mangga Dua Raya Harco Mangga Dua Bl L/17, Dki Jakarta
TOKO007 | Dach-Murphy | 021-3906655 | Jl Otto Iskandardinata III 27, Dki Jakarta
TOKO008 | Waelchi, Goyette and Hyatt | 021-6038125 | Jl Tebet Brt Dlu VII C/9, Dki Jakarta
TOKO009 | Zieme and Sons | 021-6312881 | Jl Cikini Raya 90, Dki Jakarta
TOKO010 | Brekke-Daugherty | 021-6458476 | Jl Mustang 46, Jawa Barat
(10 rows)
```

- Struktur definisi dan isi tabel KURIR

```
alden.luthfi=> \d KURIR
                                         Table "simart.kurir"
  Column |      Type       | Collation | Nullable | Default
  _____+_____+_____+_____+_____
id_kurir | character varying(10) |          | not null |
  nama_kurir | character varying(100) |          | not null |
no_telp | character varying(14) |          | not null |
  jenis_layanan | text            |          | not null |
  nama_perusahaan | character varying(50) |          | not null |
Indexes:
  "kurir_pkey" PRIMARY KEY, btree (id_kurir)
Referenced by:
  TABLE "transaksi" CONSTRAINT "transaksi_id_kurir_fkey" FOREIGN KEY (id_kurir) REFERENCES kurir(id_kurir) ON UPDATE CASCADE ON DELETE CASCADE

alden.luthfi=> SELECT * FROM KURIR;
   id_kurir |        nama_kurir        | no_telp | jenis_layanan | nama_perusahaan
  _____+_____+_____+_____+_____
KUR001 | Almira Rahimah | 81111222333 | SAME_DAY | JNE
KUR002 | Jagaraga Prasetyo | 81234567890 | NEXT_DAY | TIKI
KUR003 | Cahyanto Hardiansyah | 87654321098 | REGULER | Pos Indonesia
KUR004 | Widya Hasanah | 81111222333 | REGULER | JNE
KUR005 | Mustika Ramadhan | 81234567890 | NEXT_DAY | Anteraja
KUR006 | Banawi Irawan | 87654321098 | SAME_DAY | Anteraja
KUR007 | Warsita Dongoran | 81111222333 | SAME_DAY | Pos Indonesia
KUR008 | Rusman Prakasa | 81234567890 | REGULER | JNE
KUR009 | Darsirah Wijaya | 87654321098 | REGULER | JNE Express
KUR010 | Jarwi Pranowo | 81111222333 | NEXT_DAY | JNE
KUR011 | Balangga Jailani | 85430172820 | REGULER | TIKI
KUR012 | Akarsana Situmorang | 84551802662 | NEXT_DAY | JNE
KUR013 | Kawayra Widodo | 81414872968 | REGULER | Pos Indonesia
KUR014 | Sakura Widiasutti | 81836762704 | REGULER | Pos Indonesia
KUR015 | Sakura Handayani | 81438198883 | REGULER | JNE Express
KUR016 | Diana Susanti | 81684545781 | SAME_DAY | Anteraja
KUR017 | Cengkal Marpaung | 84437697707 | NEXT_DAY | TIKI
KUR018 | Dartono Latupono | 84319934032 | NEXT_DAY | Anteraja
KUR019 | Farhunnisa Aryani | 84529491412 | NEXT_DAY | JNE
KUR020 | Marsudi Prabowo | 83117438823 | NEXT_DAY | JNE
(20 rows)
```

Laporan Tutorial Lab 1

Basis Data

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● Struktur definisi dan isi tabel BRAND

```
alden.luthfi=> \d BRAND
          Table "simart.brand"
  Column |      Type       | Collation | Nullable | Default
  id_brand | character varying(10) |           | not null |
  nama    | character varying(7)  |           | not null |
  alamat  | text            |           | not null |
  email   | character varying(50) |           | not null |

Indexes:
  "brand_pkey" PRIMARY KEY, btree (id_brand)
Referenced by:
  TABLE "produk" CONSTRAINT "produk_id_brand_fkey" FOREIGN KEY (id_brand) REFERENCES brand(id_brand) ON UPDATE CASCADE ON DELETE CASCADE

alden.luthfi=> SELECT * FROM BRAND;
   id_brand |    nama    |           alamat           |      email
  :-----: | :-----: | :-----: | :-----:
BRND01  | Samsung  | JL. K. H Agus Salim No. 11, Samarinda | samsung.idn@gmail.com
BRND02  | Xiaomi   | Jl MH Thamrin Kav 28-30 Plaza, DKI Jakarta | xiaomi123@gmail.com
BRND03  | OPPO     | Jl Jatinegara Barat 122, DKI Jakarta | oppoIndonesia@gmail.com
BRND04  | VIVO     | Jl H Ramli 15 Menteng Dalam, DKI Jakarta | vivoz023.idn@gmail.com
(4 rows)
```

● Struktur definisi dan isi tabel PRODUK

```
alden.luthfi=> \d PRODUK
          Table "simart.produk"
  Column |      Type       | Collation | Nullable | Default
  id_produk | character varying(10) |           | not null |
  id_brand  | character varying(10) |           | not null |
  nama     | character varying(100) |           | not null |
  stok     | integer            |           | not null |
  deskripsi | text              |           | not null |
  harga    | integer            |           | not null |

Indexes:
  "produk_pkey" PRIMARY KEY, btree (id_produk)
Foreign-key constraints:
  "produk_id_brand_fkey" FOREIGN KEY (id_brand) REFERENCES brand(id_brand) ON UPDATE CASCADE ON DELETE CASCADE
Referenced by:
  TABLE "toko_produk" CONSTRAINT "toko_produk_id_produk_fkey" FOREIGN KEY (id_produk) REFERENCES produk(id_produk) ON UPDATE CASCADE ON DELETE CASCADE
  TABLE "transaksi_produk" CONSTRAINT "transaksi_produk_id_produk_fkey" FOREIGN KEY (id_produk) REFERENCES produk(id_produk) ON UPDATE CASCADE ON DELETE CASCADE

alden.luthfi=> SELECT * FROM PRODUK;
   id_produk | id_brand |    nama    | stok |           deskripsi           |      harga
  :-----: | :-----: | :-----: | :---: | :-----: | :-----:
PRD001  | BRND01  | Samsung Galaxy S21 |  600 | Burn of first deg mult sites of head, face, and neck | 1100000
PRD002  | BRND01  | Samsung Galaxy S20 |  706 | Nondisp fx of lateral condyle of left humerus, sequela | 8300000
PRD003  | BRND02  | Xiaomi Redmi Note 9 | 324 | Contusion of right middle finger w damage to nail, subs | 1800000
PRD004  | BRND03  | OPPO Reno 5 | 609 | Twin preg, unsp num plcnct & amnio sacs, first trimester | 6600000
PRD005  | BRND04  | vivo V20 | 509 | Ankylosis, left shoulder | 2700000
PRD006  | BRND04  | vivo V19 | 445 | Drawn due to fall off (nonpowered) inflatable craft, subs | 4900000
PRD007  | BRND01  | Samsung Galaxy M21 |  66 | Type II occipital condylar fracture, right side, 7thC | 5300000
PRD008  | BRND02  | Xiaomi Mi 11 | 75 | Severe persistent asthma, uncomplicated | 8800000
PRD009  | BRND02  | Xiaomi Mi 10 | 658 | Other osteonecrosis of left radius | 4100000
PRD010  | BRND02  | Xiaomi Mi 9 | 88 | Strain msl/tnd lnx extn msl toe at ank/ft lev, l foot, sqla | 1000000
PRD011  | BRND02  | Xiaomi Poco X3 | 937 | Open bite of right index finger w/o damage to nail, subs | 3300000
PRD012  | BRND01  | Samsung Galaxy Note 20 | 917 | Subluxation of T4/T5 thoracic vertebra, subsequent encounter | 8700000
PRD013  | BRND01  | Samsung Galaxy Note 10 | 145 | Other disorders of continuity of bone, right fibula | 3000000
PRD014  | BRND04  | vivo V21 | 731 | Lacerat intrm musc/fasc/tend r idx fngr at wrs/hnd lv, init | 7400000
PRD015  | BRND01  | Samsung Galaxy M21 | 678 | Abrasion of left elbow, initial encounter | 4700000
PRD016  | BRND01  | Samsung Galaxy Note 20 | 2 | Strain extn musc/fasc/tend l little fngr at forearm lv, sqla | 3800000
PRD017  | BRND01  | Samsung Galaxy Note 10 | 840 | Displ seg fx shaft of ulna, l arm, 7thC | 6100000
PRD018  | BRND01  | Samsung Galaxy Note 9 | 204 | Other injury of rectum, initial encounter | 7400000
PRD019  | BRND01  | Samsung Galaxy Z Fold 2 | 810 | Liver & biliary trac disord in preg, childbirth and the puerp | 8300000
PRD020  | BRND02  | Xiaomi Poco X3 NFC | 376 | Rheumatoid arthritis, unspecified | 4000000
PRD021  | BRND02  | Xiaomi Poco M3 | 514 | Unsp fracture of shaft of left fibula, init for clos fx | 2300000
PRD022  | BRND03  | OPPO Reno 4 | 46 | Toxic effect of contact w oth venomous plant, undetermined | 6200000
PRD023  | BRND03  | OPPO Reno 3 | 993 | Congenital malformation of skin, unspecified | 5700000
PRD024  | BRND03  | OPPO Find X3 Pro | 881 | Unsp inj intrinsic musc/fasc/tend thmc at wrs/hnd lv, subs | 5800000
PRD025  | BRND03  | OPPO Find X2 Pro | 817 | Oth comp of fb acc left in body fol kidney dialysis, subs | 1600000
(25 rows)
```

Laporan Tutorial Lab 1

Basis Data

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- Struktur definisi dan isi tabel TRANSAKSI

```
alden.luthfi=> \d TRANSAKSI
Table "simart.transaksi"
 Column | Type | Collation | Nullable | Default
-----+-----+-----+-----+-----+
 id_transaksi | character varying(10) | | not null |
 id_pembeli | character varying(10) | | not null |
 id_toko | character varying(10) | | not null |
 id_kurir | character varying(10) | | |
 tanggal_transaksi | date | | not null |
 status | character varying(20) | | not null |
 no_resi | character varying(12) | | |
Indexes:
 "transaksi_pkey" PRIMARY KEY, btree (id_transaksi)
Foreign-key constraints:
 "transaksi_id_kurir_fkey" FOREIGN KEY (id_kurir) REFERENCES kurir(id_kurir) ON UPDATE CASCADE ON DELETE CASCADE
 "transaksi_id_pembeli_fkey" FOREIGN KEY (id_pembeli) REFERENCES pembeli(id_pembeli) ON UPDATE CASCADE ON DELETE CASCADE
 "transaksi_id_toko_fkey" FOREIGN KEY (id_toko) REFERENCES toko(id_toko) ON UPDATE CASCADE ON DELETE CASCADE
References by:
 TABLE "pembayaran" CONSTRAINT "pembayaran_id_transaksi_fkey" FOREIGN KEY (id_transaksi) REFERENCES transaksi(id_transaksi) ON UPDATE CASCADE ON DELETE CASCADE
 TABLE "transaksi_produk" CONSTRAINT "transaksi_produk_id_transaksi_fkey" FOREIGN KEY (id_transaksi) REFERENCES transaksi(id_transaksi) ON UPDATE CASCADE ON DELETE CASCADE
E

alden.luthfi=> SELECT * FROM TRANSAKSI;
 id_transaksi | id_pembeli | id_toko | id_kurir | tanggal_transaksi | status | no_resi
-----+-----+-----+-----+-----+-----+-----+
 TRK001 | PMB017 | TOK0003 | KUR008 | 2024-02-02 | Menunggu Pembayaran |
 TRK002 | PMB027 | TOK0006 | KUR008 | 2023-08-23 | Diproses | 7704555208
 TRK003 | PMB011 | TOK0009 | KUR012 | 2023-05-03 | Dikirim | 2663162069
 TRK004 | PMB028 | TOK0004 | KUR013 | 2023-04-01 | Diterima Pembeli | 2383577286
 TRK005 | PMB006 | TOK0007 | KUR001 | 2023-04-03 | Selesai | 6906674898
 TRK006 | PMB016 | TOK0010 | KUR018 | 2023-05-20 | Diproses | 5377993867
 TRK007 | PMB022 | TOK0002 | KUR006 | 2023-07-03 | Dikirim | 6255101854
 TRK008 | PMB003 | TOK0008 | KUR004 | 2023-09-13 | Diterima Pembeli | 3845252891
 TRK009 | PMB015 | TOK0001 | KUR019 | 2023-04-19 | Selesai | 2522212062
 TRK010 | PMB034 | TOK0005 | KUR003 | 2023-11-22 | Dikirim | 2272507738
 TRK011 | PMB008 | TOK0004 | KUR014 | 2023-06-24 | Diproses | 8231556548
 TRK012 | PMB014 | TOK0002 | KUR016 | 2023-04-09 | Dikirim | 5136787081
 TRK013 | PMB021 | TOK0010 | KUR011 | 2023-10-31 | Diterima Pembeli | 1661762058
 TRK014 | PMB018 | TOK0001 | KUR020 | 2023-09-20 | Selesai | 1611335178
 TRK015 | PMB038 | TOK0007 | KUR001 | 2023-07-09 | Menunggu Pembayaran |
 TRK016 | PMB020 | TOK0005 | KUR007 | 2023-07-18 | Diproses | 9664347052
 TRK017 | PMB025 | TOK0008 | KUR002 | 2023-03-17 | Dikirim | 8049948160
 TRK018 | PMB036 | TOK0003 | KUR017 | 2023-11-29 | Diterima Pembeli | 2208161430
 TRK019 | PMB001 | TOK0009 | KUR015 | 2023-05-29 | Selesai | 2865632765
 TRK020 | PMB013 | TOK0006 | KUR009 | 2023-03-11 | Diproses | 3887855764
 TRK021 | PMB026 | TOK0010 | KUR010 | 2023-08-28 | Dikirim | 9712316717
 TRK022 | PMB039 | TOK0002 | KUR008 | 2024-01-01 | Diterima Pembeli | 2077426802
 TRK023 | PMB030 | TOK0008 | KUR012 | 2023-06-18 | Selesai | 5229787843
 TRK024 | PMB009 | TOK0005 | KUR013 | 2023-06-19 | Diproses | 8783677743
(24 rows)
```

- Struktur definisi dan isi tabel PEMBAYARAN

```
alden.luthfi=> \d PEMBAYARAN
Table "simart.pembayaran"
 Column | Type | Collation | Nullable | Default
-----+-----+-----+-----+-----+
 id_pembayaran | character varying(10) | | not null |
 id_pembeli | character varying(10) | | not null |
 id_transaksi | character varying(10) | | not null |
 tanggal_pembayaran | date | | not null |
 nominal | integer | | not null |
 metode_pembayaran | character varying(50) | | not null |
Indexes:
 "pembayaran_pkey" PRIMARY KEY, btree (id_pembayaran)
Foreign-key constraints:
 "pembayaran_id_pembeli_fkey" FOREIGN KEY (id_pembeli) REFERENCES pembeli(id_pembeli) ON UPDATE CASCADE ON DELETE CASCADE
 "pembayaran_id_transaksi_fkey" FOREIGN KEY (id_transaksi) REFERENCES transaksi(id_transaksi) ON UPDATE CASCADE ON DELETE CASCADE
E

alden.luthfi=> SELECT * FROM PEMBAYARAN;
 id_pembayaran | id_pembeli | id_transaksi | tanggal_pembayaran | nominal | metode_pembayaran
-----+-----+-----+-----+-----+-----+
 PMBY001 | PMB027 | TRK002 | 2023-08-23 | 1800000 | E-Wallet
 PMBY002 | PMB011 | TRK003 | 2023-05-04 | 6100000 | Kartu Kredit
 PMBY003 | PMB028 | TRK004 | 2023-04-01 | 1100000 | Transfer Bank
 PMBY004 | PMB006 | TRK005 | 2023-04-03 | 6600000 | Kartu Debit
 PMBY005 | PMB016 | TRK006 | 2023-05-20 | 2700000 | Virtual Account
 PMBY006 | PMB022 | TRK007 | 2023-07-03 | 6000000 | Kartu Debit
 PMBY007 | PMB003 | TRK008 | 2023-09-13 | 1000000 | Transfer Bank
 PMBY008 | PMB015 | TRK009 | 2023-04-20 | 3000000 | E-Wallet
 PMBY009 | PMB034 | TRK010 | 2023-11-22 | 4900000 | Kartu Kredit
 PMBY010 | PMB008 | TRK011 | 2023-06-24 | 8300000 | Kartu Kredit
 PMBY011 | PMB014 | TRK012 | 2023-04-09 | 3300000 | Virtual Account
 PMBY012 | PMB021 | TRK013 | 2023-10-31 | 6200000 | Transfer Bank
 PMBY013 | PMB018 | TRK014 | 2023-09-21 | 17100000 | E-Wallet
 PMBY014 | PMB020 | TRK016 | 2023-07-18 | 5300000 | Kartu Debit
 PMBY015 | PMB025 | TRK017 | 2023-03-18 | 4000000 | Kartu Kredit
 PMBY016 | PMB036 | TRK018 | 2023-11-30 | 4100000 | Virtual Account
 PMBY017 | PMB001 | TRK019 | 2023-05-29 | 3300000 | Transfer Bank
 PMBY018 | PMB013 | TRK020 | 2023-03-11 | 8700000 | Kartu Debit
 PMBY019 | PMB026 | TRK021 | 2023-08-28 | 8800000 | E-Wallet
 PMBY020 | PMB039 | TRK022 | 2024-01-02 | 7400000 | Virtual Account
 PMBY021 | PMB030 | TRK023 | 2023-06-18 | 3000000 | Transfer Bank
 PMBY022 | PMB009 | TRK024 | 2023-06-19 | 5800000 | Kartu Kredit
(22 rows)
```

Laporan Tutorial Lab 1

Basis Data

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- Struktur definisi dan isi tabel TRANSAKSI_PRODUK

```
alden.luthfi⇒ \d TRANSAKSI_PRODUK
Table "simart.transaksi_produk"
 Column | Type | Collation | Nullable | Default
-----+-----+-----+-----+
 id_transaksi | character varying(10) | | not null |
 id_produk | character varying(10) | | not null |

Indexes:
 "transaksi_produk_pkey" PRIMARY KEY, btree (id_transaksi, id_produk)

Foreign-key constraints:
 "transaksi_produk_id_produk_fkey" FOREIGN KEY (id_produk) REFERENCES produk(id_produk) ON UPDATE CASCADE ON DELETE CASCADE
 "transaksi_produk_id_transaksi_fkey" FOREIGN KEY (id_transaksi) REFERENCES transaksi(id_transaksi) ON UPDATE CASCADE ON DELETE CASCADE

alden.luthfi⇒ SELECT * FROM TRANSAKSI_PRODUK;
 id_transaksi | id_produk
-----+-----+
 TRK001 | PRD022
 TRK002 | PRD003
 TRK003 | PRD017
 TRK004 | PRD001
 TRK005 | PRD004
 TRK006 | PRD005
 TRK007 | PRD011
 TRK008 | PRD005
 TRK009 | PRD010
 TRK009 | PRD013
 TRK010 | PRD006
 TRK011 | PRD019
 TRK012 | PRD011
 TRK013 | PRD022
 TRK014 | PRD008
 TRK014 | PRD002
 TRK015 | PRD019
 TRK016 | PRD007
 TRK017 | PRD013
 TRK017 | PRD010
 TRK018 | PRD009
 TRK019 | PRD011
 TRK020 | PRD012
 TRK021 | PRD008
 TRK022 | PRD005
 TRK022 | PRD015
 TRK023 | PRD013
 TRK024 | PRD024
(28 rows)
```

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- Struktur definisi dan isi tabel TOKO_PRODUK

```
alden.luthfi=> \d TOKO_PRODUK
                                         Table "simart.toko_produk"
   Column |          Type          | Collation | Nullable | Default
   id_toko | character varying(10) |           | not null |
   id_produk | character varying(10) |           | not null |
Indexes:
"toko_produk_pkey" PRIMARY KEY, btree (id_toko, id_produk)
Foreign-key constraints:
"toko_produk_id_produk_fkey" FOREIGN KEY (id_produk) REFERENCES produk(id_produk) ON UPDATE CASCADE ON DELETE CASCADE
"toko_produk_id_toko_fkey" FOREIGN KEY (id_toko) REFERENCES toko(id_toko) ON UPDATE CASCADE ON DELETE CASCADE

alden.luthfi=> SELECT * FROM TOKO_PRODUK;
   id_toko | id_produk
  _____
  TOKO001 | PRD013
  TOKO001 | PRD017
  TOKO001 | PRD008
  TOKO001 | PRD023
  TOKO001 | PRD021
  TOKO001 | PRD002
  TOKO002 | PRD015
  TOKO002 | PRD011
  TOKO002 | PRD005
  TOKO003 | PRD016
  TOKO003 | PRD022
  TOKO003 | PRD025
  TOKO003 | PRD009
  TOKO003 | PRD020
  TOKO004 | PRD001
  TOKO004 | PRD019
  TOKO005 | PRD018
  TOKO005 | PRD007
  TOKO005 | PRD006
  TOKO005 | PRD024
  TOKO005 | PRD010
  TOKO005 | PRD014
  TOKO006 | PRD004
  TOKO006 | PRD003
  TOKO006 | PRD012
  TOKO006 | PRD016
  TOKO006 | PRD025
  TOKO007 | PRD004
  TOKO007 | PRD019
  TOKO007 | PRD023
  TOKO007 | PRD009
  TOKO008 | PRD007
  TOKO008 | PRD013
  TOKO008 | PRD015
  TOKO008 | PRD010
  TOKO009 | PRD012
  TOKO009 | PRD002
  TOKO009 | PRD006
  TOKO009 | PRD017
  TOKO009 | PRD011
  TOKO010 | PRD008
  TOKO010 | PRD005
  TOKO010 | PRD022
  TOKO010 | PRD014
(44 rows)
```

2. [TRIVIA] Soal nomor 3

Akan terjadi operasi JOIN. Operasi JOIN menggabungkan baris dari dua atau lebih tabel berdasarkan kolom yang saling berhubungan.

Laporan Tutorial Lab 1

Basis Data

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Latihan 4

1. [SQL] Soal nomor 1

```
alden.luthfi⇒ SELECT nama, id_pembeli, tanggal_lahir FROM PEMBELI WHERE nama LIKE '%D%' ORDER BY tanggal_lahir DESC;
    nama      | id_pembeli | tanggal_lahir
+-----+-----+
Malena Di Biaggi | PMB030 | 2004-03-15
Roxi D'Emanuele | PMB021 | 2002-09-14
Maxim Disney     | PMB025 | 2001-09-04
Darcey Crawshaw | PMB027 | 1992-04-07
Daloris Beddo   | PMB001 | 1989-05-14
Davin Clemenceau | PMB005 | 1984-12-03
Lisle Dunkerly   | PMB035 | 1984-08-19
Holden Dellow    | PMB028 | 1981-07-15
Dix Somers       | PMB013 | 1981-02-09
Trev Domingues   | PMB018 | 1980-10-31
(10 rows)
```

2. [SQL] Soal nomor 2

```
alden.luthfi⇒ SELECT nama, id_toko FROM TOKO WHERE alamat NOT LIKE '%Dki Jakarta';
    nama      | id_toko
+-----+
Stark, Reynolds and Schiller | TOK0002
Ankunding-Hoppe             | TOK0004
Bernhard-Crona              | TOK0005
Brekke-Daugherty            | TOK0010
(4 rows)
```

3. [SQL] Soal nomor 3

```
alden.luthfi⇒ SELECT nama, harga FROM PRODUK WHERE harga > 5000000 AND nama LIKE '%Samsung%';
    nama      | harga
+-----+
Samsung Galaxy S20 | 8300000
Samsung Galaxy M21 | 5300000
Samsung Galaxy Note 20 | 8700000
Samsung Galaxy Note 10 | 6100000
Samsung Galaxy Note 9 | 7400000
Samsung Galaxy Z Fold 2 | 8300000
(6 rows)
```

4. [SQL] Soal nomor 4

```
alden.luthfi⇒ SELECT DISTINCT nama_perusahaan FROM KURIR;
    nama_perusahaan
+-----+
J&T Express
Pos Indonesia
TIKI
Anteraja
JNE
(5 rows)
```

5. [SQL] Soal nomor 5

```
alden.luthfi⇒ SELECT nama, stok FROM PRODUK WHERE NAMA NOT LIKE '%Samsung%' AND stok < 100;
    nama      | stok
+-----+
Xiaomi Mi 11 | 75
Xiaomi Mi 9  | 88
OPPO Reno 4 | 46
(3 rows)
```