

## TUGAS KELOMPOK 1 BASIS DATA

Kelompok A3 Kelas A:

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Username: db22a003

Password: 20158

### **Membuat schema SIREST dan mengubah search\_path ke SIREST:**

```
db22a003=> CREATE SCHEMA SIREST;
CREATE SCHEMA
db22a003=> SET search_path to SIREST;
SET
```

#### **Bagian a: USER\_ACC**

1. Membuat tabel USER\_ACC

```
db22a003=> CREATE TABLE USER_ACC (
db22a003(>   Email VARCHAR(50) NOT NULL,
db22a003(>   Password VARCHAR(50) NOT NULL,
db22a003(>   PhoneNum VARCHAR(20) NOT NULL,
db22a003(>   FName VARCHAR(15) NOT NULL,
db22a003(>   LName VARCHAR(15) NOT NULL,
db22a003(>   PRIMARY KEY (Email)
db22a003(> );
CREATE TABLE
```

2. Struktur data USER\_ACC

```
db22a003=> \d USER_ACC
Table "sirest.user_acc"
 Column |          Type          | Collation | Nullable | Default
-----+---------------------+-----+-----+-----+
 email  | character varying(50) |          | not null |
 password | character varying(50) |          | not null |
 phonenum | character varying(20) |          | not null |
 fname   | character varying(15) |          | not null |
 lname   | character varying(15) |          | not null |
Indexes:
"user_acc_pkey" PRIMARY KEY, btree (email)
Referenced by:
    TABLE "admin" CONSTRAINT "admin_email_fkey" FOREIGN KEY (email) REFERENCES user_acc(email)
    TABLE "transaction_actor" CONSTRAINT "transaction_actor_email_fkey" FOREIGN KEY (email) REFERENCES user_acc(email)
db22a003=>
```

### 3. Memasukkan data

```

db22a003=> INSERT INTO USER_ACC VALUES
('mthompsett@wunderground.com','hsIdpITTH0t',7171399292.0,'Marne','Thompson'),
('istirzaker1@tripod.com','rzxf9phlnHUV',7532559923.0,'Ilka','Stirzaker'),
('ahamshaw2@wordpress.org','cElgio45u17H',6912066383.0,'Ardyth','Hamshaw'),
('tjacobsz3@dyndns.org','gLcHM0TzW',7864471621.0,'Tracey','Jacobsz'),
('jcasiero4@unblog.fr','09EXXtvLSyFd6',7285663638.0,'Jolyn','Casiero'),
('anornable5@amazon.co.jp','zXsIHS1KHz',7596862910.0,'Alfi','Nornable'),
('nlynthal6@techcrunch.com','5BORhTkIe0',4301443702.0,'Nicky','Lynthal'),
('ringlis7@sohu.com','lxg5ImuaciSi',4329293947.0,'Roger','Inglis'),
('gbuckthorp8@forbes.com','7WWchrgM9t',8568341777.0,'Gibbie','Buckthorp'),
('lgrgic9@ftc.gov','KGJqKAxwv',9592789461.0,'Loretta','Grgic'),
('ctoppina@blogs.com','UnwCr6e',4511644355.0,'Clyde','Toppin'),
('gbalfourb@vinaora.com','y32AtyLVavH',4824095922.0,'Gareth','Balfour'),
('bmaytmc@quantcast.com','qtF5tQcizL',4135518850.0,'Bernette','Maytom'),
('pdewfall1@topsy.com','7nnW069mJUMz',3225951080.0,'Pennie','Dewfall'),
('kcapine@senate.gov','fGlpnqnaRq',6415839817.0,'Karlen','Capin'),
('isimonetonf@about.com','IW03zvc',6131577963.0,'Ignacius','Simoneton'),
('gburfordg@chron.com','pvOCWseIL',6413216400.0,'Gussi','Burford'),
('rrawsthorne@loc.gov','9Y4fuL',7329690880.0,'Worth','Rawsthorne'),
('sklugmani@reference.com','FNGMx5wvm',2225650045.0,'Selestina','Klugman'),
('lcattell1@bing.com','hTF7X5BsWmcy',5546168060.0,'Lyndsie','Cattell'),
('etank1@deviantart.com','7IKNlr',4444342948.0,'Erin','Tant'),
('gtunnacliffe@mpg.org','6tXDDb4Fx',7821101935.0,'Gaspard','Tunnacliffe'),
('dguiraudn@jiathis.com','6llyvleH9r',1015966976.0,'Glenn','Spinelli'),
('dgriddiough@google.ru','WwVkuUCod',9411842747.0,'Dulcine','Guiraud'),
('ablunsump@time.com','UfKpkO42',5354145405.0,'Alaric','Blunsum'),
('hmhayhoug@google.de','9CvVAQ',6212654233.0,'Hally','Mayhou'),
('rbleacherr@baidu.com','c0WRQoVB',4113785526.0,'Ryley','Bleacher'),
('dstruthers@jiathis.com','b4XrvxAh',8568210310.0,'Danny','Struther'),
('doadet@sourceforge.net','bmCa3W',8365480942.0,'Donnie','Oade'),
('mbolsoveru@i2i.jp','9urkcfxkBrI',2245671450.0,'Matthaeus','Bolsover'),
('dchillingsworthw@wikia.com','uudiLf0',7614571594.0,'Darnell','Chillingsworth'),
('bpatemorew@opera.com','te2VUOLpg',5479928342.0,'Barny','Patemore'),
('mdeasonx@furl.net','XdNbP469i',5282148787.0,'Merrili','Deason'),
('ttavinor17@google.es','Dc6UgBwM',2118537194.0,'Truda','Tavinor'),
('amottershead18@baidu.com','yIOrcb',8965035744.0,'Arel','Mottershead');

INSERT 0 45

```

### 4. Memerlihatkan Data

email	password	phonenum	fname	lname
mthompsett@wunderground.com	hsIdpITTH0t	7171399292.0	Marne	Thompson
istirzaker1@tripod.com	rzxf9phlnHUV	7532559923.0	Ilka	Stirzaker
ahamshaw2@wordpress.org	cElgio45u17H	6912066383.0	Ardyth	Hamshaw
tjacobsz3@dyndns.org	gLcHM0TzW	7864471621.0	Tracey	Jacobsz
jcasiero4@unblog.fr	09EXXtvLSyFd6	7285663638.0	Jolyn	Casiero
anornable5@amazon.co.jp	zXsIHS1KHz	7596862910.0	Alfi	Nornable
nlynthal6@techcrunch.com	5BORhTkIe0	4301443702.0	Nicky	Lynthal
ringlis7@sohu.com	lxg5ImuaciSi	4329293947.0	Roger	Inglis
gbuckthorp8@forbes.com	7WWchrgM9t	8568341777.0	Gibbie	Buckthorp
lgrgic9@ftc.gov	KGJqKAxwv	9592789461.0	Loretta	Grgic
ctoppina@blogs.com	UnwCr6e	4511644355.0	Clyde	Toppin
gbalfourb@vinaora.com	y32AtyLVavH	4824095922.0	Gareth	Balfour
bmaytmc@quantcast.com	qtF5tQcizL	4135518850.0	Bernette	Maytom
pdewfall1@topsy.com	7nnW069mJUMz	3225951080.0	Pennie	Dewfall
kcapine@senate.gov	fGlpnqnaRq	6415839817.0	Karlen	Capin
isimonetonf@about.com	IW03zvc	6131577963.0	Ignacius	Simoneton
gburfordg@chron.com	pvOCWseIL	6413216400.0	Gussi	Burford
rrawsthorne@loc.gov	9Y4fuL	7329690880.0	Worth	Rawsthorne
sklugmani@reference.com	FNGMx5wvm	2225650045.0	Selestina	Klugman
lcattell1@bing.com	hTF7X5BsWmcy	5546168060.0	Lyndsie	Cattell
etank1@deviantart.com	7IKNlr	4444342948.0	Erin	Tant
gtunnacliffe@mpg.org	6tXDDb4Fx	7821101935.0	Gaspard	Tunnacliffe
dguiraudn@jiathis.com	6llyvleH9r	1015966976.0	Glenn	Spinelli
dgriddiough@google.ru	WwVkuUCod	7785243541.0	Dulcine	Guiraud
ablunsump@time.com	UfKpkO42	9411842747.0	Catarina	Riddiough
hmhayhoug@google.de	9CvVAQ	6212654233.0	Hally	Mayhou
rbleacherr@baidu.com	c0WRQoVB	4113785526.0	Ryley	Bleacher
dstruthers@jiathis.com	b4XrvxAh	8568210310.0	Danny	Struther
doadet@sourceforge.net	bmCa3W	8365480942.0	Donnie	Oade
mbolsoveru@i2i.jp	9urkcfxkBrI	2245671450.0	Matthaeus	Bolsover
dchillingsworthw@wikia.com	uudiLf0	7614571594.0	Darnell	Chillingsworth
bpatemorew@opera.com	te2VUOLpg	5479928342.0	Barny	Patemore
mdeasonx@furl.net	XdNbP469i	5282148787.0	Merrili	Deason
tpiffordy@lycos.com	AgcbvfjCJWfd	6834236959.0	Tamera	Pifford
mbauchopz@ehow.com	SHBqbTan	6232683521.0	Marcia	Bauchop
1stquentin10@multiply.com	tJB0szHz2	7652267658.0	Letty	St. Quentin
mpatrickson11@cam.ac.uk	uIzdwL3k	4466576255.0	Marlie	Patrickson
jennorl2@xrea.com	rdBC3lgym	6904176522.0	Judah	Ennor
ocowie13@blinklist.com	wRLqBnd	4011028994.0	Odo	Cowie
bdubois14@answers.com	v0DtIGxXYdfh	5886554668.0	Bryant	Dubois
smatijasevic15@house.gov	gWLeQ0B6	4885284504.0	Steward	Matijasevic
smagarrell116@webmd.com	QIhzhl1kal	4627094925.0	Sybillia	Magarrell
ttavinor17@google.es	Dc6UgBwM	2118537194.0	Truda	Tavinor
amottershead18@baidu.com	yIOrcb	8965035744.0	Arel	Mottershead

(45 rows)

## Bagian b: ADMIN

1. Membuat tabel ADMIN

```
db22a003=> CREATE TABLE ADMIN (
db22a003(>   Email VARCHAR(50) NOT NULL,
db22a003(>   PRIMARY KEY (Email),
db22a003(>   FOREIGN KEY (Email) REFERENCES USER_ACC (Email)
db22a003(> );
CREATE TABLE
```

2. Struktur data ADMIN

```
db22a003=> \d ADMIN
              Table "sirest.admin"
Column |          Type          | Collation | Nullable | Default
-----+-----+-----+-----+-----+
email  | character varying(50) |           | not null |
Indexes:
"admin_pkey" PRIMARY KEY, btree (email)
Foreign-key constraints:
"admin_email_fkey" FOREIGN KEY (email) REFERENCES user_acc(email)
Referenced by:
  TABLE "transaction_actor" CONSTRAINT "transaction_actor_adminid_fkey" FOREIGN
  KEY (adminid) REFERENCES admin(email)
db22a003=>
```

3. Memasukkan data

```
db22a003=> INSERT INTO ADMIN VALUES
db22a003->      ('mthompsett0@wunderground.com'),
db22a003->      ('istirzaker1@tripod.com'),
db22a003->      ('ahamshaw2@wordpress.org'),
db22a003->      ('tjacobsz3@dyndns.org'),
db22a003->      ('jcasiero4@unblog.fr');
INSERT 0 5
```

4. Memperlihatkan data

```
db22a003=> SELECT * FROM ADMIN;
              email
-----
mthompsett0@wunderground.com
istirzaker1@tripod.com
ahamshaw2@wordpress.org
tjacobsz3@dyndns.org
jcasiero4@unblog.fr
(5 rows)
```

## Bagian c: TRANSACTION\_ACTOR

### 1. Membuat tabel TRANSACTION\_ACTOR

```
db22a003=> CREATE TABLE TRANSACTION_ACTOR (
db22a003(>   Email VARCHAR(50) NOT NULL,
db22a003(>   NIK VARCHAR(20) NOT NULL,
db22a003(>   BankName VARCHAR(20) NOT NULL,
db22a003(>   AccountNo VARCHAR(20) NOT NULL,
db22a003(>   RestoPay BIGINT NOT NULL DEFAULT 0,
db22a003(>   AdminId VARCHAR(50),
db22a003(>   PRIMARY KEY (Email),
db22a003(>   FOREIGN KEY (Email) REFERENCES USER_ACC (Email),
db22a003(>   FOREIGN KEY (AdminId) REFERENCES ADMIN (Email)
db22a003(> );
CREATE TABLE
```

### 2. Struktur data TRANSACTION\_ACTOR

```
db22a003=> \d TRANSACTION_ACTOR
Table "sirest.transaction_actor"
 Column | Type | Collation | Nullable | Default
-----+-----+-----+-----+-----+
email | character varying(50) | | not null |
nik | character varying(20) | | not null |
bankname | character varying(20) | | not null |
accountno | character varying(20) | | not null |
restopay | bigint | | not null | 0
adminid | character varying(50) | | |
```

Indexes:

```
"transaction_actor_pkey" PRIMARY KEY, btree (email)
```

Foreign-key constraints:

```
"transaction_actor_adminid_fkey" FOREIGN KEY (adminid) REFERENCES admin(email)
"transaction_actor_email_fkey" FOREIGN KEY (email) REFERENCES user_acc(email)
```

Referenced by:

```
TABLE "courier" CONSTRAINT "courier_email_fkey" FOREIGN KEY (email) REFERENCES transaction_actor(email)
TABLE "customer" CONSTRAINT "customer_email_fkey" FOREIGN KEY (email) REFERENCES transaction_actor(email)
TABLE "restaurant" CONSTRAINT "restaurant_email_fkey" FOREIGN KEY (email) REFERENCES transaction_actor(email)
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO TRANSACTION_ACTOR
db22a003->   ('anornable5@amazon.co.jp',9690036925.0,'Mandaria Bank',2409213596.0,927000.0,'mthompsett0@wunderground.com'),
db22a003->   ('nlynthal@techcrunch.com',8288465111.0,'Mandaria Bank',7521274299.0,30000.0,'istirzakerl@tripod.com'),
db22a003->   ('ringric9@ftc.gov',1385479781.0,'Mandaria Bank',5283042452.0,807000.0,'mthompsett0@wunderground.com'),
db22a003->   ('gbuckthorpe@forbes.com',6259226419.0,'Mandaria Bank',3405788620.0,558000.0,'ahamshaw2@wordpress.org'),
db22a003->   ('lrgric9@ftc.gov',872357993.0,'Mandaria Bank',7402181375.0,198000.0,'istirzakerl@tripod.com'),
db22a003->   ('ctoppina@blogs.com',7873130080.0,'Mandaria Bank',5591357585.0,239000.0,'tjacobsz3@dyndns.org'),
db22a003->   ('gbalfour@vinaora.com',8219394981.0,'Mandaria Bank',5681663542.0,151000.0,'mthompsett0@wunderground.com'),
db22a003->   ('pmaytomc@quantcast.com',4942174013.0,'Mandaria Bank',6775813789.0,66000.0,'jcasiero4@unblog.fr'),
db22a003->   ('pdewfall@topsy.net',6935403556.0,'Mandaria Bank',2914808728.0,536000.0,'mthompsett0@wunderground.com'),
db22a003->   ('kcapine@senate.gov',7186237714.0,'Mandaria Bank',3474763568.0,405000.0,'ahamshaw2@wordpress.org'),
db22a003->   ('isimonetonf@about.com',4942475460.0,'Mandaria Bank',2115996829.0,842000.0,'ahamshaw2@wordpress.org'),
db22a003->   ('gburfordg@chron.com',8828820949.0,'Mandaria Bank',5380751289.0,353000.0,'istirzakerl@tripod.com'),
db22a003->   ('wrawsthorne@loc.gov',340169424.0,'Mandaria Bank',2190823836.0,823000.0,'tjacobsz3@dyndns.org'),
db22a003->   ('sklumani@reference.com',6369942316.0,'Mandaria Bank',9430224451.0,837000.0,'mthompsett0@wunderground.com'),
db22a003->   ('lcatte11@bing.com',7755202533.0,'Mandaria Bank',6561217405.0,308000.0,'mthompsett0@wunderground.com'),
db22a003->   ('etantek@deviantart.com',8234448343.0,'Mandaria Bank',6494456810.0,849000.0,'tjacobsz3@dyndns.org'),
db22a003->   ('gtunnacilleff@mpg.org',9501665933.0,'Beeny Bank',2007748971.0,676000.0,'ahamshaw2@wordpress.org'),
db22a003->   ('gspinelli@mdot.gov',7116323367.0,'Beeny Bank',3649039526.0,158000.0,'istirzakerl@tripod.com'),
db22a003->   ('dquiraudn@jiathis.com',3020406551.0,'Beeny Bank',1888753505.0,901000.0,'istirzakerl@tripod.com'),
db22a003->   ('criddiougho@google.ru',2352661287.0,'Beeny Bank',2006164522.0,842000.0,'mthompsett0@wunderground.com'),
db22a003->   ('abluunsump@time.com',8147362644.0,'Beeny Bank',5521242581.0,177000.0,'ahamshaw2@wordpress.org'),
db22a003->   ('hmayhousq@google.de',8570528751.0,'Beeny Bank',7513210452.0,428000.0,'tjacobsz3@dyndns.org'),
db22a003->   ('rbleacherr@baidu.com',2188611528.0,'Beeny Bank',7154516971.0,496000.0,'mthompsett0@wunderground.com'),
db22a003->   ('dstruthers@jiathis.com',6978841692.0,'Beeny Bank',9031256856.0,969000.0,'tjacobsz3@dyndns.org'),
db22a003->   ('doadeat@sourceforge.net',3680951359.0,'Beeny Bank',50711618079.0,187000.0,'istirzakerl@tripod.com'),
db22a003->   ('mbolsoveru@2i.jp',709819920.0,'Beeny Bank',7690908668.0,943000.0,'ahamshaw2@wordpress.org'),
db22a003->   ('dchillingsworthv@wikia.com',8223128980.0,'Beeny Bank',35461616170.0,325000.0,'mthompsett0@wunderground.com'),
db22a003->   ('bpatemorew@opera.com',6318043672.0,'Beeny Bank',1241575774.0,489000.0,'tjacobsz3@dyndns.org'),
db22a003->   ('mdeaseonxfurl.net',9663196808.0,'Beeny Bank',3553766633.0,464000.0,'mthompsett0@wunderground.com'),
db22a003->   ('tpiffordy@lycos.com',1790289783.0,'Beeny Bank',7332499122.0,941000.0,'ahamshaw2@wordpress.org'),
db22a003->   ('mbauchopz@ehow.com',6914466444.0,'Beeny Bank',3823617944.0,386000.0,'tjacobsz3@dyndns.org'),
db22a003->   ('lstquentin10@multipliy.com',2557621614.0,'Beeny Bank',8655214688.0,230000.0,'istirzakerl@tripod.com'),
db22a003->   ('mpatriskson11@cam.ac.uk',4344226326.0,'Beeny Bank',3136154934.0,53000.0,'istirzakerl@tripod.com'),
db22a003->   ('jennor12@rea.com',9715473969.0,'Beeny Bank',1384731701.0,371000.0,'jcasiero4@unblog.fr'),
db22a003->   ('ocowie13@blinklist.com',7659418673.0,'Beeny Bank',2744904669.0,64000.0,'mthompsett0@wunderground.com'),
db22a003->   ('bduboisi4@answers.com',5002930055.0,'Beeny Bank',5420656263.0,112000.0,'ahamshaw2@wordpress.org'),
db22a003->   ('smatijasevic15@house.gov',7028489428.0,'Beeny Bank',1661617676.0,582000.0,'ahamshaw2@wordpress.org'),
db22a003->   ('smagarrell16@webmd.com',7699468674.0,'Blue Sea Bank',7054144604.0,246000.0,'jcasiero4@unblog.fr'),
db22a003->   ('ttavinor17@google.es',6161995500.0,'Blue Sea Bank',2724652416.0,470000.0,'istirzakerl@tripod.com'),
db22a003->   ('amottershead18@baidu.com',7058844626.0,'Blue Sea Bank',7272630293.0,407000.0,'mthompsett0@wunderground.com');
INSERT 0 40
```

#### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM TRANSACTION_ACTOR;
+-----+-----+-----+-----+-----+-----+-----+
| email | nik  | bankname | accountno | restopay | adminid |
+-----+-----+-----+-----+-----+-----+
| anornable5@amazon.co.jp | 9690036925.0 | Mandaria Bank | 2409213596.0 | 927000 | mthompsett0@wunderground.com
| nlynthal6@techcrunch.com | 8288465111.0 | Mandaria Bank | 7521274299.0 | 30000 | istirzaker1@tripod.com
| ringlis@sohu.com | 1385479781.0 | Mandaria Bank | 5283042452.0 | 807000 | mthompsett0@wunderground.com
| gbuckthorp@forbes.com | 6259226419.0 | Mandaria Bank | 3405788620.0 | 558000 | ahamsaw2@wordpress.org
| lgrgcic9@ftc.gov | 8723579933.0 | Mandaria Bank | 7402181375.0 | 198000 | istirzaker1@tripod.com
| ctoppina@blogs.com | 7873130080.0 | Mandaria Bank | 5591357585.0 | 239000 | tjacobsz3dyndns.org
| gbalfourb@vinacora.com | 8219394981.0 | Mandaria Bank | 5681663542.0 | 151000 | mthompsett0@wunderground.com
| bmaytome@quantcast.com | 4942174013.0 | Mandaria Bank | 6775813789.0 | 66000 | jcasiere4@unblog.fr
| pdewfalld@tropy.com | 6935403556.0 | Mandaria Bank | 2914808728.0 | 536000 | mthompsett0@wunderground.com
| kcapine@senate.gov | 7186237714.0 | Mandaria Bank | 3474763568.0 | 405000 | ahamsaw2@wordpress.org
| isimonetonf@about.com | 4942475460.0 | Mandaria Bank | 2115996829.0 | 842000 | ahamsaw2@wordpress.org
| qburfordg@chron.com | 8828820949.0 | Mandaria Bank | 5380751289.0 | 353000 | istirzaker1@tripod.com
| wrawsthorneh@loc.gov | 3401694924.0 | Mandaria Bank | 2190823836.0 | 823000 | tjacobsz3dyndns.org
| sklugmani@reference.com | 6369942316.0 | Mandaria Bank | 9430224451.0 | 837000 | mthompsett0@wunderground.com
| lcattellj@bing.com | 7755202533.0 | Mandaria Bank | 6561217405.0 | 308000 | mthompsett0@wunderground.com
| etank@deviantart.com | 8234448343.0 | Mandaria Bank | 6494456810.0 | 849000 | tjacobsz3dyndns.org
| gtunnacliffel@mpg.org | 9501665933.0 | Beeny Bank | 2007748971.0 | 676000 | ahamsaw2@wordpress.org
| gspinnellm@dot.gov | 7116323367.0 | Beeny Bank | 3649039526.0 | 158000 | istirzaker1@tripod.com
| dguiraudn@jiathis.com | 3020406551.0 | Beeny Bank | 1888753505.0 | 901000 | istirzaker1@tripod.com
| criddiougho@google.ru | 2352661287.0 | Beeny Bank | 2006164522.0 | 842000 | mthompsett0@wunderground.com
| ablunsump@time.com | 8147362644.0 | Beeny Bank | 5521242581.0 | 177000 | ahamsaw2@wordpress.org
| hmayhouq@google.de | 8570528751.0 | Beeny Bank | 7513210452.0 | 428000 | tjacobsz3dyndns.org
| rbleacherr@baidu.com | 2188611528.0 | Beeny Bank | 7154516971.0 | 496000 | mthompsett0@wunderground.com
| dstruthers@jiathis.com | 6978841692.0 | Beeny Bank | 9031256856.0 | 969000 | tjacobsz3dyndns.org
| doadet.sourceforge.net | 3690951359.0 | Beeny Bank | 7511618079.0 | 187000 | istirzaker1@tripod.com
| mboloveru@i2i.jp | 7098199920.0 | Beeny Bank | 7690908668.0 | 943000 | ahamsaw2@wordpress.org
| dchillingsworth@wikia.com | 8223128980.0 | Beeny Bank | 3546616170.0 | 325000 | mthompsett0@wunderground.com
| bpatemorew@opera.com | 6318043672.0 | Beeny Bank | 1241575774.0 | 489000 | tjacobsz3dyndns.org
| mdeasonx@furl.net | 9663196808.0 | Beeny Bank | 3553766633.0 | 464000 | mthompsett0@wunderground.com
| tpiifordy@lycos.com | 1790289783.0 | Beeny Bank | 7332499122.0 | 941000 | ahamsaw2@wordpress.org
| mbauchopz@ehow.com | 6914466444.0 | Beeny Bank | 3823617944.0 | 386000 | tjacobsz3dyndns.org
| lstquentin10@multiply.com | 2557621614.0 | Beeny Bank | 8655214688.0 | 230000 | istirzaker1@tripod.com
| mpatrikszon11@cam.ac.uk | 4344226326.0 | Beeny Bank | 3136154934.0 | 53000 | istirzaker1@tripod.com
| jennor12@xrea.com | 9715473969.0 | Beeny Bank | 1384731701.0 | 371000 | jcasiere4@unblog.fr
| ocowlie13@blinklist.com | 7659418673.0 | Beeny Bank | 2744904669.0 | 64000 | mthompsett0@wunderground.com
| bdubois14@answers.com | 5002930055.0 | Beeny Bank | 5420656263.0 | 112000 | ahamsaw2@wordpress.org
| smatijasevic15@house.gov | 702849428.0 | Beeny Bank | 1661617676.0 | 582000 | ahamsaw2@wordpress.org
| smagarrell116@webmd.com | 7699468674.0 | Blue Sea Bank | 7054144604.0 | 246000 | jcasiere4@unblog.fr
| ttavini0r17@google.es | 6161995500.0 | Blue Sea Bank | 2724652416.0 | 470000 | istirzaker1@tripod.com
| amotterthead18@baidu.com | 7058844626.0 | Blue Sea Bank | 7272630293.0 | 407000 | mthompsett0@wunderground.com
(40 rows)
```

db22a003=> █

#### Bagian d: COURIER

##### 1. Membuat tabel COURIER

```
db22a003=> CREATE TABLE COURIER (
db22a003(>   Email VARCHAR(50) NOT NULL,
db22a003(>   PlateNum VARCHAR(10) NOT NULL,
db22a003(>   DrivingLicenseNum VARCHAR(20) NOT NULL,
db22a003(>   VehicleType VARCHAR(15) NOT NULL,
db22a003(>   VehicleBrand VARCHAR(15) NOT NULL,
db22a003(>   PRIMARY KEY (Email),
db22a003(>   FOREIGN KEY (Email) REFERENCES TRANSACTION_ACTOR(Email)
db22a003(> );
CREATE TABLE
  "sirest.courier"
  +-----+-----+-----+-----+-----+
  | Column | Type  | Collation | Nullable | Default |
  +-----+-----+-----+-----+-----+
  | email  | character varying(50) |          | not null |          |
  | plateenum | character varying(10) |          | not null |          |
  | drivinglicensenum | character varying(20) |          | not null |          |
  | vehicletype | character varying(15) |          | not null |          |
  | vehiclebrand | character varying(15) |          | not null |          |
Indexes:
  "courier_pkey" PRIMARY KEY, btree (email)
Foreign-key constraints:
  "courier_email_fkey" FOREIGN KEY (email) REFERENCES transaction_actor(email)
Referenced by:
  TABLE "transaction" CONSTRAINT "transaction_courierid_fkey" FOREIGN KEY (courierid) REFERENCES courier(email) ON UPDATE CASCADE ON DELETE CASCADE
```

##### 2. Struktur data COURIER

```
db22a003=> \d COURIER
Table "sirest.courier"
  +-----+-----+-----+-----+-----+
  | Column | Type  | Collation | Nullable | Default |
  +-----+-----+-----+-----+-----+
  | email  | character varying(50) |          | not null |          |
  | plateenum | character varying(10) |          | not null |          |
  | drivinglicensenum | character varying(20) |          | not null |          |
  | vehicletype | character varying(15) |          | not null |          |
  | vehiclebrand | character varying(15) |          | not null |          |
Indexes:
  "courier_pkey" PRIMARY KEY, btree (email)
Foreign-key constraints:
  "courier_email_fkey" FOREIGN KEY (email) REFERENCES transaction_actor(email)
Referenced by:
  TABLE "transaction" CONSTRAINT "transaction_courierid_fkey" FOREIGN KEY (courierid) REFERENCES courier(email) ON UPDATE CASCADE ON DELETE CASCADE
```

db22a003=> █

### 3. Memasukkan data

```
db22a003=> INSERT INTO COURIER VALUES
db22a003->      ('anornable5@amazon.co.jp', 'QF1996RKC', 'pzhKLxebQA', 'Motor', 'Atoyot'),
db22a003->      ('nlynthal6@techcrunch.com', 'XX4820UEW', 'BhGednrgFE', 'Motor', 'Wumbo'),
db22a003->      ('ringlis7@sohu.com', 'CD2170AQH', 'nQShPKjMs', 'Motor', 'Atoyot'),
db22a003->      ('gbuckthorp8@forbes.com', 'QS1654YSL', 'BAEXJYItZv', 'Motor', 'Dohan'),
db22a003->      ('lgrgic9@ftc.gov', 'EI2250BCT', 'VyoAiyJTlt', 'Motor', 'Wumbo'),
db22a003->      ('ctoppina@blogs.com', 'KF9128AXX', 'MmiJhTkAP', 'Car', 'Dohan'),
db22a003->      ('gbalfourb@vinaora.com', 'PT2530PKW', 'cJskgahJLa', 'Car', 'Dohan'),
db22a003->      ('bmaytomc@quantcast.com', 'BA1928SDA', 'IkNaTsMkn', 'Car', 'Atoyot'),
db22a003->      ('pdewfalld@topsy.com', 'MP7112PII', 'AmOguSSus', 'Car', 'Arferia'),
db22a003->      ('kcapine@senate.gov', 'AM1059GUS', 'taKznsaBaFh', 'Car', 'Arferia');
INSERT 0 10
```

### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM COURIER;
          email           | platenum | drivinglicensenum | vehicletype | vehiclebrand
-----+-----+-----+-----+-----+
anornable5@amazon.co.jp | QF1996RKC | pzhKLxebQA       | Motor      | Atoyot
nlynthal6@techcrunch.com | XX4820UEW | BhGednrgFE       | Motor      | Wumbo
ringlis7@sohu.com       | CD2170AQH | nQShPKjMs       | Motor      | Atoyot
gbuckthorp8@forbes.com | QS1654YSL | BAEXJYItZv       | Motor      | Dohan
lgrgic9@ftc.gov         | EI2250BCT | VyoAiyJTlt       | Motor      | Wumbo
ctoppina@blogs.com     | KF9128AXX | MmiJhTkAP       | Car        | Dohan
gbalfourb@vinaora.com  | PT2530PKW | cJskgahJLa       | Car        | Dohan
bmaytomc@quantcast.com | BA1928SDA | IkNaTsMkn       | Car        | Atoyot
pdewfalld@topsy.com    | MP7112PII | AmOguSSus       | Car        | Arferia
kcapine@senate.gov     | AM1059GUS | taKznsaBaFh       | Car        | Arferia
(10 rows)
```

## Bagian e: CUSTOMER

### 1. Membuat tabel CUSTOMER

```
db22a003=> CREATE TABLE CUSTOMER (
db22a003(>   Email VARCHAR(50) NOT NULL,
db22a003(>   Birthdate DATE NOT NULL,
db22a003(>   Sex CHAR(1) NOT NULL,
db22a003(>   PRIMARY KEY (Email),
db22a003(>   FOREIGN KEY (Email) REFERENCES TRANSACTION_ACTOR(Email)
db22a003(> );
CREATE TABLE
```

### 2. Struktur data CUSTOMER

```
db22a003=> \d CUSTOMER
              Table "sirest.customer"
  Column  |      Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----+
email    | character varying(50) |          | not null |
birthdate | date          |          | not null |
sex      | character(1)   |          | not null |
Indexes:
  "customer_pkey" PRIMARY KEY, btree (email)
Foreign-key constraints:
  "customer_email_fkey" FOREIGN KEY (email) REFERENCES transaction_actor(email)
Referenced by:
  TABLE "transaction" CONSTRAINT "transaction_email_fkey" FOREIGN KEY (email) REFERENCES customer(email)
  ON UPDATE CASCADE ON DELETE CASCADE
db22a003=>
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO CUSTOMER VALUES
db22a003->      ('isimonetonf@about.com','1991-09-02 00:00:00','F'),
db22a003->      ('gburfordg@chron.com','1996-05-03 00:00:00','M'),
db22a003->      ('wrawsthorneh@loc.gov','1989-10-02 00:00:00','F'),
db22a003->      ('sklugmani@reference.com','1997-09-03 00:00:00','M'),
db22a003->      ('lcattellj@bing.com','1999-08-06 00:00:00','F'),
db22a003->      ('etantk@deviantart.com','1987-04-02 00:00:00','F'),
db22a003->      ('gtunnacliffel@gmpg.org','1981-08-10 00:00:00','M'),
db22a003->      ('gspiniellom@dot.gov','1989-08-21 00:00:00','M'),
db22a003->      ('dguiraudn@jiathis.com','1981-11-25 00:00:00','M'),
db22a003->      ('criddiougho@google.ru','1980-07-13 00:00:00','F'),
db22a003->      ('ablunsump@time.com','1996-11-27 00:00:00','M'),
db22a003->      ('hmayhouq@google.de','1989-05-23 00:00:00','F'),
db22a003->      ('rbleacherr@baidu.com','1995-11-05 00:00:00','F'),
db22a003->      ('dstruthers@jiathis.com','1990-07-21 00:00:00','M'),
db22a003->      ('doadet@sourceforge.net','1987-12-14 00:00:00','M'),
db22a003->      ('mbolsoveru@i2i.jp','1986-04-28 00:00:00','M'),
db22a003->      ('dchillingsworthv@wikia.com','1984-02-06 00:00:00','F'),
db22a003->      ('bpatemorew@opera.com','1989-02-05 00:00:00','M'),
db22a003->      ('mdeasonx@furl.net','1984-06-17 00:00:00','M'),
db22a003->      ('tpiffordy@lycos.com','1980-12-26 00:00:00','M');
INSERT 0 20
(20 rows)
```

### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM CUSTOMER;
          email           | birthdate | sex
-----+-----+-----+
isimonetonf@about.com | 1991-09-02 | F
gburfordg@chron.com   | 1996-05-03 | M
wrawsthorneh@loc.gov | 1989-10-02 | F
sklugmani@reference.com | 1997-09-03 | M
lcattellj@bing.com   | 1999-08-06 | F
etantk@deviantart.com | 1987-04-02 | F
gtunnacliffel@gmpg.org | 1981-08-10 | M
gspiniellom@dot.gov | 1989-08-21 | M
dguiraudn@jiathis.com | 1981-11-25 | M
criddiougho@google.ru | 1980-07-13 | F
ablunsump@time.com   | 1996-11-27 | M
hmayhouq@google.de   | 1989-05-23 | F
rbleacherr@baidu.com | 1995-11-05 | F
dstruthers@jiathis.com | 1990-07-21 | M
doadet@sourceforge.net | 1987-12-14 | M
mbolsoveru@i2i.jp    | 1986-04-28 | M
dchillingsworthv@wikia.com | 1984-02-06 | F
bpatemorew@opera.com | 1989-02-05 | M
mdeasonx@furl.net    | 1984-06-17 | M
tpiffordy@lycos.com | 1980-12-26 | M
(20 rows)
```

## Bagian f: RESTAURANT

### 1. Membuat tabel RESTAURANT

```
db22a003=> CREATE TABLE RESTAURANT (
    db22a003->   RName VARCHAR(25) NOT NULL,
    db22a003->   RBranch VARCHAR(25) NOT NULL,
    db22a003->   Email VARCHAR(50),
    db22a003->   RPhoneNum VARCHAR(18) NOT NULL,
    db22a003->   Street VARCHAR(30) NOT NULL,
    db22a003->   District VARCHAR(20) NOT NULL,
    db22a003->   City VARCHAR(20) NOT NULL,
    db22a003->   Province VARCHAR(20) NOT NULL,
    db22a003->   Rating INT NOT NULL DEFAULT 0 CHECK (Rating BETWEEN 0 AND 10),
    db22a003->   RCcategory VARCHAR(20),
    db22a003->   PRIMARY KEY (RName, RBranch),
    db22a003->   FOREIGN KEY (Email) REFERENCES TRANSACTION_ACTOR (Email),
    db22a003->   FOREIGN KEY (RCcategory) REFERENCES RESTAURANT_CATEGORY (id)
    db22a003-> );
CREATE TABLE
```

### 2. Struktur data RESTAURANT

```
db22a003=> \d RESTAURANT
      Table "sirest.restaurant"
 Column |          Type          | Collation | Nullable | Default
-----+---------------------+-----+-----+-----+
 rname  | character varying(25) |          | not null |
 rbranch | character varying(25) |          | not null |
 email   | character varying(50) |          |          |
 rphonenum | character varying(18) |          | not null |
 street  | character varying(30) |          | not null |
 district | character varying(20) |          | not null |
 city    | character varying(20) |          | not null |
 province | character varying(20) |          | not null |
 rating   | integer              |          | not null | 0
 rccategory | character varying(20) |          |          |
Indexes:
 "restaurant_pkey" PRIMARY KEY, btree (rname, rbranch)
Check constraints:
 "restaurant_rating_check" CHECK (rating >= 0 AND rating <= 10)
Foreign-key constraints:
 "restaurant_email_fkey" FOREIGN KEY (email) REFERENCES transaction_actor(email)
 "restaurant_rcategory_fkey" FOREIGN KEY (rcategory) REFERENCES restaurant_category(id)
Referenced by:
 TABLE "food" CONSTRAINT "food_rname_fkey" FOREIGN KEY (rname, rbranch) REFERENCES restaurant(rname, rbranch) ON UPDATE CASCADE ON DELETE CASCADE
 TABLE "restaurant_operating_hours" CONSTRAINT "restaurant_operating_hours_name_fkey" FOREIGN KEY (name, branch) REFERENCES restaurant(rname, rbranch) ON UPDATE CASCADE ON DELETE CASCADE
db22a003=>
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO RESTAURANT VALUES
db22a003-> ('Sunda Food','Sutteridge','mbauchopz@ehow.com',5891605325.0,'526 Sutteridge Trail','Rose','Shuishi','West Java',8.0,'RC1'),
db22a003-> ('Sunda Food','Paget Terrace','lstquentin10@multiply.com',4586326330.0,'67 Paget Terrace','Buffalo','San Francisco','East Java',7.0,'RC1'),
db22a003-> ('Burger Queen','Eagle','mpatriskson11@cam.ac.uk',4377546129.0,'5633 5th Road','Eagle','Merdeka','West Sulawesi',1.0,'RC2'),
db22a003-> ('Venti''s','Dandelion','jennor12@rea.com',7228511534.0,'0632 Onsgard Terrace','Dandelion','Rosh Pinna','North Java',6.0,'RC2'),
db22a003-> ('Pizza Hat','Derek Crossing','ocowiel3@blinklist.com',5298549290.0,'262 Derek Crossing','Okeanos','Nevytsake','South Java',9.0,'RC2'),
db22a003-> ('Kaswel','Gale','bdubois14@answers.com',6654518782.0,'5234 Homewood Avenue','Gale','Aettal','East Sulawesi',8.0,'RC3'),
db22a003-> ('Chickenees','Almo Drive','smatijsasevic15@house.gov',6261606265.0,'626 Almo Drive','Flora','Wangpu','North Sumatera',6.0,'RC3'),
db22a003-> ('Rice-To','Linden Court','smagarrell16@webmd.com',4168941148.0,'74 Linden Court','Rose','Haarlem','South Sumatera',9.0,'RC4'),
db22a003-> ('Golden Star','Krajan','ttavinorl17@google.es',2448286375.0,'2 Northland Crossing','Buffalo','Krajan','Central Java',7.0,'RC5'),
db22a003-> ('Foresta','Matumadua','amottershead18@baidu.com',2597328863.0,'61 Utah Way','Eagle','Matumadua','East Kalimantan',7.0,'RC5');
INSERT 0 10
```

### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM RESTAURANT;
      rname |       rbranch |           email |      rphonenum |          street |      district |        city |      province |      rating | rccategory
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 Sunda Food | Sutteridge | mbauchopz@ehow.com | 5891605325.0 | 526 Sutteridge Trail | Rose | Shuishi | West Java | 8 | RC1
 Sunda Food | Paget Terrace | lstquentin10@multiply.com | 4586326330.0 | 67 Paget Terrace | Buffalo | San Francisco | East Java | 7 | RC1
 Burger Queen | Eagle | mpatriskson11@cam.ac.uk | 4377546129.0 | 5633 5th Road | Eagle | Merdeka | West Sulawesi | 1 | RC2
 Venti's | Dandelion | jennor12@rea.com | 7228511534.0 | 0632 Onsgard Terrace | Dandelion | Rosh Pinna | North Java | 6 | RC2
 Pizza Hat | Derek Crossing | ocowiel3@blinklist.com | 5298549290.0 | 262 Derek Crossing | Okeanos | Nevytsake | South Java | 9 | RC2
 Kaswel | Gale | bdubois14@answers.com | 6654518782.0 | 5234 Homewood Avenue | Gale | Aettal | East Sulawesi | 8 | RC3
 Chickenees | Almo Drive | smatijsasevic15@house.gov | 6261606265.0 | 626 Almo Drive | Flora | Wangpu | North Sumatera | 6 | RC3
 Rice-To | Linden Court | smagarrell16@webmd.com | 4168941148.0 | 74 Linden Court | Rose | Haarlem | South Sumatera | 9 | RC4
 Golden Star | Krajan | ttavinorl17@google.es | 2448286375.0 | 2 Northland Crossing | Buffalo | Krajan | Central Java | 7 | RC5
 Foresta | Matumadua | amottershead18@baidu.com | 2597328863.0 | 61 Utah Way | Eagle | Matumadua | East Kalimantan | 7 | RC5
(10 rows)
```

## Bagian g: RESTAURANT\_OPERATING\_HOURS

### 1. Membuat tabel RESTAURANT\_OPERATING\_HOURS

```
db22a003=> CREATE TABLE RESTAURANT_OPERATING_HOURS (
db22a003(> Name VARCHAR(25) NOT NULL,
db22a003(> Branch VARCHAR(25) NOT NULL,
db22a003(> Day VARCHAR(10) NOT NULL,
db22a003(> StartHours Time NOT NULL,
db22a003(> EndHours Time NOT NULL,
db22a003(> PRIMARY KEY (Name, Branch, Day),
db22a003(> FOREIGN KEY (Name, Branch) REFERENCES RESTAURANT(RName, RBranch) ON UPDATE CASCADE ON DELETE CASCADE
db22a003(> );
CREATE TABLE
db22a003=> █
```

### 2. Struktur data RESTAURANT\_OPERATING\_HOURS

```
db22a003=> \d RESTAURANT_OPERATING_HOURS
Table "sirest.restaurant_operating_hours"
 Column | Type | Collation | Nullable | Default
-----+-----+-----+-----+-----+
 name | character varying(25) | | not null |
 branch | character varying(25) | | not null |
 day | character varying(10) | | not null |
 starthours | time without time zone | | not null |
 endhours | time without time zone | | not null |
Indexes:
 "restaurant_operating_hours_pkey" PRIMARY KEY, btree (name, branch, day)
Foreign-key constraints:
 "restaurant_operating_hours_name_fkey" FOREIGN KEY (name, branch) REFERENCES restaurant(rname, rbranch) ON UPDATE CASCADE ON DELETE CASCADE
db22a003=> █
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO RESTAURANT_OPERATING_HOURS VALUES
db22a003->     ('Sunda Food','Sutteridge','Rabu','08:00:00','16:01:00'),
db22a003->     ('Sunda Food','Paget Terrace','Kamis','08:05:00','16:04:00'),
db22a003->     ('Burger Queen','Eagle','Minggu','08:09:00','16:05:00'),
db22a003->     ('Venti''s','Dandelion','Kamis','08:19:00','16:06:00'),
db22a003->     ('Pizza Hat','Derek Crossing','Jumat','08:20:00','16:07:00'),
db22a003->     ('Kaswel','Gale','Jumat','08:22:00','16:11:00'),
db22a003->     ('Chickienies','Almo Drive','Sabtu','08:26:00','16:13:00'),
db22a003->     ('Rice-To','Linden Court','Minggu','08:27:00','16:17:00'),
db22a003->     ('Golden Star','Krajan','Kamis','08:28:00','16:19:00'),
db22a003->     ('Foresta','Matumadua','Jumat','08:29:00','16:21:00'),
db22a003->     ('Sunda Food','Sutteridge','Selasa','08:30:00','16:23:00'),
db22a003->     ('Sunda Food','Paget Terrace','Rabu','08:36:00','16:32:00'),
db22a003->     ('Burger Queen','Eagle','Jumat','08:37:00','16:35:00'),
db22a003->     ('Venti''s','Dandelion','Senin','08:40:00','16:39:00'),
db22a003->     ('Pizza Hat','Derek Crossing','Kamis','08:41:00','16:41:00'),
db22a003->     ('Kaswel','Gale','Senin','08:49:00','16:42:00'),
db22a003->     ('Chickienies','Almo Drive','Minggu','08:50:00','16:45:00'),
db22a003->     ('Rice-To','Linden Court','Senin','08:57:00','16:47:00'),
db22a003->     ('Golden Star','Krajan','Sabtu','08:58:00','16:53:00'),
db22a003->     ('Foresta','Matumadua','Minggu','08:59:00','16:54:00'),
db22a003->     ('Sunda Food','Sutteridge','Senin','09:00:00','16:59:00'),
db22a003->     ('Sunda Food','Paget Terrace','Jumat','09:08:00','17:03:00'),
db22a003->     ('Burger Queen','Eagle','Rabu','09:09:00','17:08:00'),
db22a003->     ('Venti''s','Dandelion','Minggu','09:10:00','17:13:00'),
db22a003->     ('Pizza Hat','Derek Crossing','Rabu','09:11:00','17:14:00'),
db22a003->     ('Kaswel','Gale','Selasa','09:12:00','17:20:00'),
db22a003->     ('Chickienies','Almo Drive','Jumat','09:14:00','17:21:00'),
db22a003->     ('Rice-To','Linden Court','Kamis','09:16:00','17:23:00'),
db22a003->     ('Golden Star','Krajan','Jumat','09:19:00','17:24:00'),
db22a003->     ('Foresta','Matumadua','Senin','09:28:00','17:26:00');
INSERT 0 30
db22a003=> █
```

#### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM RESTAURANT_OPERATING_HOURS;
   name | branch      | day    | starthours | endhours
-----+-----+-----+-----+-----+
Sunda Food | Sutteridge | Rabu   | 08:00:00  | 16:01:00
Sunda Food | Paget Terrace | Kamis  | 08:05:00  | 16:04:00
Burger Queen | Eagle     | Minggu | 08:09:00  | 16:05:00
Venti's | Dandelion | Kamis  | 08:19:00  | 16:06:00
Pizza Hat | Derek Crossing | Jumat | 08:20:00  | 16:07:00
Kaswel | Gale       | Jumat  | 08:22:00  | 16:11:00
Chickenes | Almo Drive | Sabtu  | 08:26:00  | 16:13:00
Rice-To | Linden Court | Minggu | 08:27:00  | 16:17:00
Golden Star | Krajan    | Kamis  | 08:28:00  | 16:19:00
Foresta | Matumadua | Jumat  | 08:29:00  | 16:21:00
Sunda Food | Sutteridge | Selasa | 08:30:00  | 16:23:00
Sunda Food | Paget Terrace | Rabu   | 08:36:00  | 16:32:00
Burger Queen | Eagle     | Jumat  | 08:37:00  | 16:35:00
Venti's | Dandelion | Senin  | 08:40:00  | 16:39:00
Pizza Hat | Derek Crossing | Kamis  | 08:41:00  | 16:41:00
Kaswel | Gale       | Senin  | 08:49:00  | 16:42:00
Chickenes | Almo Drive | Minggu | 08:50:00  | 16:45:00
Rice-To | Linden Court | Senin  | 08:57:00  | 16:47:00
Golden Star | Krajan    | Sabtu  | 08:58:00  | 16:53:00
Foresta | Matumadua | Minggu | 08:59:00  | 16:54:00
Sunda Food | Sutteridge | Senin  | 09:00:00  | 16:59:00
Sunda Food | Paget Terrace | Jumat | 09:08:00  | 17:03:00
Burger Queen | Eagle     | Rabu   | 09:09:00  | 17:08:00
Venti's | Dandelion | Minggu | 09:10:00  | 17:13:00
Pizza Hat | Derek Crossing | Rabu   | 09:11:00  | 17:14:00
Kaswel | Gale       | Selasa | 09:12:00  | 17:20:00
Chickenes | Almo Drive | Jumat  | 09:14:00  | 17:21:00
Rice-To | Linden Court | Kamis  | 09:16:00  | 17:23:00
Golden Star | Krajan    | Jumat  | 09:19:00  | 17:24:00
Foresta | Matumadua | Senin  | 09:28:00  | 17:26:00
(30 rows)
```

```
db22a003=> █
```

#### Bagian h: RESTAURANT\_CATEGORY

##### 1. Membuat tabel RESTAURANT\_CATEGORY

```
db22a003=> CREATE TABLE RESTAURANT_CATEGORY (
db22a003(> Id VARCHAR(20) NOT NULL,
db22a003(> Name VARCHAR(50) NOT NULL,
db22a003(> PRIMARY KEY (Id)
db22a003(> );
CREATE TABLE
db22a003=> █
```

##### 2. Struktur data RESTAURANT\_CATEGORY

```
db22a003=> \d RESTAURANT_CATEGORY
Table "sirest.restaurant_category"
 Column | Type          | Collation | Nullable | Default
-----+-----+-----+-----+-----+
 id   | character varying(20) |           | not null |
 name | character varying(50) |           | not null |
Indexes:
 "restaurant_category_pkey" PRIMARY KEY, btree (id)
Referenced by:
 TABLE "restaurant" CONSTRAINT "restaurant_rcategory_fkey" FOREIGN KEY (rcategory) REFERENCES restaurant_category(id)
db22a003=> █
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO RESTAURANT_CATEGORY VALUES
db22a003->      ('RC1','Ethnic'),
db22a003->      ('RC2','Fast Food'),
db22a003->      ('RC3','Casual Dining'),
db22a003->      ('RC4','Family Style'),
db22a003->      ('RC5','Fine Dining');
INSERT 0 5
db22a003=> █
```

### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM RESTAURANT_CATEGORY;
+-----+-----+
| id   | name |
+-----+-----+
| RC1  | Ethnic|
| RC2  | Fast Food|
| RC3  | Casual Dining|
| RC4  | Family Style|
| RC5  | Fine Dining|
+-----+
(5 rows)

db22a003=> █
```

**Bagian i:**

## **FOOD\_CATEGORY**

### 1. Membuat tabel FOOD\_CATEGORY

```
db22a003=> CREATE TABLE FOOD_CATEGORY (
db22a003(> Id VARCHAR(20) NOT NULL,
db22a003(> Name VARCHAR(50) NOT NULL,
db22a003(> PRIMARY KEY (Id)
db22a003(> );
CREATE TABLE
db22a003=> █
```

### 2. Struktur data FOOD\_CATEGORY

```
db22a003=> \d FOOD_CATEGORY
Table "sirest.food_category"
 Column     Type          | Collation | Nullable | Default
-----+-----+-----+-----+-----+
id    | character varying(20)| not null |           |
name  | character varying(50)| not null |           |
Indexes:
"food_category_pkey" PRIMARY KEY, btree (id)
Referenced by:
    TABLE "food" CONSTRAINT "food_fcategory_fkey" FOREIGN KEY (fcategory) REFERENCES food_category(id) ON UPDATE CASCADE ON DELETE CASCADE
db22a003=> █
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO FOOD_CATEGORY VALUES
db22a003->      ('FC1','Minuman'),
db22a003->      ('FC2','Sayuran'),
db22a003->      ('FC3','Entree'),
db22a003->      ('FC4','Makanan'),
db22a003->      ('FC5','Hidangan Penutup');
INSERT 0 5
db22a003=> █
```

#### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM FOOD_CATEGORY;
+----+-----+
| id |      name
+----+-----+
| FC1 | Minuman
| FC2 | Sayuran
| FC3 | Entree
| FC4 | Makanan
| FC5 | Hidangan Penutup
+----+
(5 rows)

db22a003=> █
```

### Bagian j: FOOD

#### 1. Membuat tabel FOOD

```
db22a003=> CREATE TABLE FOOD (
db22a003(> RName VARCHAR(25) NOT NULL,
db22a003(> RBranch VARCHAR(25) NOT NULL,
db22a003(> FoodName VARCHAR(50) NOT NULL,
db22a003(> Description Text,
db22a003(> Stock INT NOT NULL,
db22a003(> Price Bigint NOT NULL,
db22a003(> FCcategory VARCHAR(20) NOT NULL,
db22a003(> PRIMARY KEY (RName, RBranch, FoodName),
db22a003(> FOREIGN KEY (RName, RBranch) REFERENCES RESTAURANT(RName, RBranch) ON DELETE CASCADE ON UPDATE CASCADE,
db22a003(> FOREIGN KEY (FCcategory) REFERENCES FOOD_CATEGORY(Id) ON DELETE CASCADE ON UPDATE CASCADE
db22a003(> );
CREATE TABLE
db22a003=> █
```

#### 2. Struktur data FOOD

```
db22a003=> \d FOOD
Table "sirest.food"
+-----+-----+-----+-----+-----+
| Column | Type   | Collation | Nullable | Default |
+-----+-----+-----+-----+-----+
| rname  | character varying(25) |          | not null |
| rbranch | character varying(25) |          | not null |
| foodname | character varying(50) |          | not null |
| description | text |          |          |
| stock | integer |          | not null |
| price | bigint |          | not null |
| fccategory | character varying(20) |          | not null |
Indexes:
    "food_pkey" PRIMARY KEY, btree (rname, rbranch, foodname)
Foreign-key constraints:
    "food_fccategory_fkey" FOREIGN KEY (fccategory) REFERENCES food_category(id) ON UPDATE CASCADE ON DELETE CASCADE
    "food_rname_fkey" FOREIGN KEY (rname, rbranch) REFERENCES restaurant(rname, rbranch) ON UPDATE CASCADE ON DELETE CASCADE
Referenced by:
    TABLE "food_ingredient" CONSTRAINT "food_ingredient_rname_fkey" FOREIGN KEY (rname, rbranch, foodname) REFERENCES food(rname, rbranch, foodname) ON UPDATE CASCADE ON DELETE CASCADE
    TABLE "restaurant_promo" CONSTRAINT "restaurant_promo_rname_fkey" FOREIGN KEY (rname, rbranch, foodname) REFERENCES food(rname, rbranch, foodname) ON UPDATE CASCADE ON DELETE CASCADE
    TABLE "transaction_food" CONSTRAINT "transaction_food_rname_fkey" FOREIGN KEY (rname, rbranch, foodname) REFERENCES food(rname, rbranch, foodname) ON UPDATE CASCADE ON DELETE CASCADE
db22a003=> █
```

### 3. Memasukkan data

```

db22a003=> INSERT INTO FOOD VALUES
db22a003-> ('Sunda Food','Sutteridge','Milk','Milk is our everyday product',40.0,5000.0,'FC1'),
db22a003-> ('Sunda Food','Paget Terrace','Bread','Bread is a staple food made out of Flour, water, and yeast.',60.0,5500.0,'FC3'),
db22a003-> ('Burger Queen','Eagle','Fried Rice','Fried rice is a really good food',90.0,24000.0,'FC4'),
db22a003-> ('Venti''s','Dandelion','Cheese','Cheese is a product of milk.',100.0,3000.0,'FC5'),
db22a003-> ('Pizza Hat','Derek Crossing','Rendang','Rendang is a spicy and delicious food',120.0,20000.0,'FC4'),
db22a003-> ('Kaswel','Gale','Sandwich','Sandwich is the most common breakfast, any dish, where the bread serves as a wrapper for other food items.',30.0,10000.0,'FC2'),
db22a003-> ('Chickeneies','Almo Drive','Pancake','A pancake is a flat cake cooked on a hot surface such as a frying pan.',40.0,12500.0,'FC5'),
db22a003-> ('Rice-To','Linden Court','Pie','A Pie is a baked dish of fruits or even vegetables, with its top and base of a pastry.',23.0,13000.0,'FC2'),
db22a003-> ('Golden Star','Krajan','Steak','Steak is a meat filled with riches',47.0,30000.0,'FC4'),
db22a003-> ('Foresta','Matumadua','Pizza','Pizza is our most favorite Fast food. We can buy Pizza or maybe even make it at home.',31.0,49000.0,'FC3'),
db22a003-> ('Sunda Food','Sutteridge','Donuts','A doughnut or donut is a popular sweet dish, which is a leavened fried dough.',21.0,40000.0,'FC5'),
db22a003-> ('Sunda Food','Paget Terrace','Salad','Salad is a cold dish that contains a mixture of raw and cooked vegetables, typically seasoned with different salts, oil, vinegar, or some other dressing.',15.0,10000.0,'FC2'),
db22a003-> ('Burger Queen','Eagle','Meatball','Meatballs are ground meat rolled into tiny balls which are cooked in a different sauce.',170.0,15000.0,'FC4'),
db22a003-> ('Venti''s','Dandelion','GrilledChicken','Grilled chicken consists of parts of chicken or the whole chicken Grilled and cooked.',45.0,23000.0,'FC4'),
db22a003-> ('Pizza Hat','Derek Crossing','Hamburger','A Hamburger is also considered a sandwich that has more than one patty.',55.0,25000.0,'FC4),
db22a003-> ('Kaswel','Gale','Tuna','Tuna is a saltwater fish.',68.0,17000.0,'FC4),
db22a003-> ('Chickeneies','Almo Drive','Noodles','Noodles are made from leavened dough, which is roles and stretched and cut into thin strips.',73.0,12000.0,'FC4),
db22a003-> ('Rice-To','Linden Court','Egg','We all know what an Egg is. They are laid by the female animals of different animals, for example , birds, reptiles, and amphibians.',12.0,3000.0,'FC2),
db22a003-> ('Golden Star','Krajan','Bacon','Bacon is salted pork made from the pork belly or the lesser fat region of the back cuts.',98.0,34000.0,'FC4),
db22a003-> ('Foresta','Matumadua','Waffle','Waffles are made from leavened dough, and it is cooked between two plates, giving them a specific surface pattern, size, and shape.',110.0,17000.0,'FC3),
db22a003-> ('Sunda Food','Sutteridge','FrenchFries','French Fries is a French dish, originated in Belgium, which is Potatoes deep-fried.',23.0,16000.0,'FC4),
db22a003-> ('Sunda Food','Paget Terrace','Biryani','Biryani is the most popular Indian dish. It contains highly seasoned rice with meat, and sometimes veggies and eggs too.',43.0,30000.0,'FC4),
db22a003-> ('Burger Queen','Eagle','Pasta','Pasta is also a dish made from leavened dough mixed with eggs formed in different shapes and sizes.',77.0,17000.0,'FC5),
db22a003-> ('Venti''s','Dandelion','SmokedSalmon','Salmon is the common name for ray-finned fish in the family Salmonidae.',99.0,45000.0,'FC4),
db22a003-> ('Pizza Hat','Derek Crossing','Mayonnaise','Mayonnaise, or informally called Mayo, is a thick cold sauce usually used for Salads or fries.',100.0,6000.0,'FC5),
db22a003-> ('Kaswel','Gale','Taco','Taco is a traditional Mexican dish. It contains small tortillas with filling.',125.0,18000.0,'FC3),
db22a003-> ('Chickeneies','Almo Drive','Hotdog','The hot dog is another famous Fast food, which is grilled it steamed Sausage placed in between sliced bread.',32.0,12000.0,'FC3),
db22a003-> ('Rice-To','Linden Court','Dosa','Dosa is a South Indian dish. It is similar to a crepe in appearance, although a Dosa emphasizes the Savory flavor more.',10.0,30400.0,'FC1),
db22a003-> ('Golden Star','Krajan','Chocolate','Chocolate is made from roasted ground cacao pods.',5.0,12000.0,'FC3),
db22a003-> ('Foresta','Matumadua','IceCream','It is a frozen dessert that is usually taken as a snack or dessert.',400.0,59000.0,'FC1);
INSERT 0 30
db22a003=>

```

### 4. Memperlihatkan data

rname	rbranch	foodname	description	
		stock	price	fcategory
Sunda Food	Sutteridge	Milk	Milk is our everyday product	
Sunda Food	Paget Terrace	Bread	Bread is a staple food made out of Flour, water, and yeast.	
Burger Queen	Eagle	Fried Rice	Fried rice is a really good food	
Venti's	Dandelion	Cheese	Cheese is a product of milk.	
Pizza Hat	Derek Crossing	Rendang	Rendang is a spicy and delicious food	
Kaswel	Gale	Sandwich	Sandwich is the most common breakfast, any dish, where the bread serves as a wrapper for other food items.	
Chickeneies	Almo Drive	Pancake	A pancake is a flat cake cooked on a hot surface such as a frying pan.	
Rice-To	Linden Court	Pie	A Pie is a baked dish of fruits or even vegetables, with its top and base of a pastry.	
Golden Star	Krajan	Steak	Steak is a meat filled with riches	
Foresta	Matumadua	Pizza	Pizza is our most favorite Fast food. We can buy Pizza or maybe even make it at home.	
Sunda Food	Sutteridge	Donuts	A doughnut or donut is a popular sweet dish, which is a leavened fried dough.	
Sunda Food	Paget Terrace	Salad	Salad is a cold dish that contains a mixture of raw and cooked vegetables, typically seasoned with different salts, oil, vinegar, or some other dressing.	
Burger Queen	Eagle	Meatball	Meatballs are ground meat rolled into tiny balls which are cooked in a different sauce.	
Venti's	Dandelion	GrilledChicken	Grilled chicken consists of parts of chicken or the whole chicken Grilled and cooked.	
Pizza Hat	Derek Crossing	Hamburger	A Hamburger is also considered a sandwich that has more than one patty.	
Kaswel	Gale	Tuna	Tuna is a saltwater fish.	
Chickeneies	Almo Drive	Noodles	Noodles are made from leavened dough, which is roles and stretched and cut into thin strips.	
Rice-To	Linden Court	Egg	We all know what an Egg is. They are laid by the female animals of different animals, for example , birds, reptiles, and amphibians.	
Golden Star	Krajan	Bacon	Bacon is salted pork made from the pork belly or the lesser fat region of the back cuts.	
Foresta	Matumadua	Waffle	Waffles are made from leavened dough, and it is cooked between two plates, giving them a specific surface pattern, size, and shape.	
Sunda Food	Sutteridge	FrenchFries	French Fries is a French dish, originated in Belgium, which is Potatoes deep-fried.	
Sunda Food	Paget Terrace	Biryani	Biryani is the most popular Indian dish. It contains highly seasoned rice with meat, and sometimes veggies and eggs too.	
Burger Queen	Eagle	Pasta	Pasta is also a dish made from leavened dough mixed with eggs formed in different shapes and sizes.	
Venti's	Dandelion	SmokedSalmon	Salmon is the common name for ray-finned fish in the family Salmonidae.	
Pizza Hat	Derek Crossing	Mayonnaise	Mayonnaise, or informally called Mayo, is a thick cold sauce usually used for Salads or fries.	
Kaswel	Gale	Taco	Taco is a traditional Mexican dish. It contains small tortillas with filling.	
Chickeneies	Almo Drive	Hotdog	The hot dog is another famous Fast food, which is grilled it steamed Sausage placed in between sliced bread.	

Rice-To	Linden Court	Dosa	Dosa is a South Indian dish. It is similar to a crepe in appearance, although a Dosa emphasizes the Savory flavor more.	
		10   30400   FC1		
Golden Star	Krajan	Chocolate	Chocolate is made from roasted ground cacao pods.	
		5   12000   FC3		
Foresta	Matumadua	IceCream	It is a frozen dessert that is usually taken as a snack or dessert.	
		400   59000   FC1		
(30 rows)				
(END)				

## Bagian k: INGREDIENT

1. Membuat tabel INGREDIENT

```
db22a003=> CREATE TABLE INGREDIENT (
db22a003(> Id VARCHAR(25) NOT NULL,
db22a003(> Name VARCHAR(25) NOT NULL,
db22a003(> PRIMARY KEY (Id)
db22a003(> );
CREATE TABLE
db22a003=> █
```

2. Struktur data INGREDIENT

```
db22a003=> \d INGREDIENT
Table "sirest.ingredient"
 Column | Type | Collation | Nullable | Default
-----+-----+-----+-----+-----+
 id   | character varying(25) |          | not null |
 name | character varying(25) |          | not null |
Indexes:
 "ingredient_pkey" PRIMARY KEY, btree (id)
Referenced by:
 TABLE "food_ingredient" CONSTRAINT "food_ingredient_ingredient_fkey" FOREIGN KEY (ingredient) REFERENCES ingredient(id) ON UPDATE CASCADE ON DELETE CASCADE
ADE
db22a003=> █
```

3. Memasukkan data

```
db22a003=> INSERT INTO INGREDIENT VALUES
db22a003->      ('I1','Sayuran'),
db22a003->      ('I2','Bumbu'),
db22a003->      ('I3','Rempah'),
db22a003->      ('I4','Cereal'),
db22a003->      ('I5','Kacang-kacangan'),
db22a003->      ('I6','Daging ayam'),
db22a003->      ('I7','Daging sapi'),
db22a003->      ('I8','Susu'),
db22a003->      ('I9','Buah-buahan'),
db22a003->      ('I10','Ikan'),
db22a003->      ('I11','Gula'),
db22a003->      ('I12','Garam'),
db22a003->      ('I13','Minyak'),
db22a003->      ('I14','Telur'),
db22a003->      ('I15','Margarin'),
db22a003->      ('I16','Kecap'),
db22a003->      ('I17','Mentega'),
db22a003->      ('I18','Tepung'),
db22a003->      ('I19','Air'),
db22a003->      ('I20','Jahe');
INSERT 0 20
db22a003=> █
```

#### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM INGREDIENT;
+----+-----+
| id | name |
+----+-----+
| I1 | Sayuran |
| I2 | Bumbu |
| I3 | Rempah |
| I4 | Cereal |
| I5 | Kacang-kacangan |
| I6 | Daging ayam |
| I7 | Daging sapi |
| I8 | Susu |
| I9 | Buah-buahan |
| I10 | Ikan |
| I11 | Gula |
| I12 | Garam |
| I13 | Minyak |
| I14 | Telur |
| I15 | Margarin |
| I16 | Kecap |
| I17 | Mentega |
| I18 | Tepung |
| I19 | Air |
| I20 | Jahe |
+----+
(20 rows)
```

```
db22a003=> █
```

### Bagian I: FOOD\_INGREDIENT

#### 1. Membuat tabel FOOD\_INGREDIENT

```
db22a003=> CREATE TABLE FOOD_INGREDIENT (
    db22a003(> RName VARCHAR(25) NOT NULL,
    db22a003(> RBranch VARCHAR(25) NOT NULL,
    db22a003(> FoodName VARCHAR(50) NOT NULL,
    db22a003(> Ingredient VARCHAR(25) NOT NULL,
    db22a003(> PRIMARY KEY (RName, RBranch, FoodName, Ingredient),
    db22a003(> FOREIGN KEY (RName, RBranch, FoodName) REFERENCES FOOD(RName, RBranch, FoodName) ON UPDATE CASCADE ON DELETE CASCADE,
    db22a003(> FOREIGN KEY (Ingredient) REFERENCES INGREDIENT(Id) ON UPDATE CASCADE ON DELETE CASCADE
    db22a003(> );
CREATE TABLE
db22a003=> █
```

#### 2. Struktur data FOOD\_INGREDIENT

```
db22a003=> \d FOOD_INGREDIENT
Table "sirest.food_ingredient"
+-----+-----+-----+-----+-----+
| Column | Type | Collation | Nullable | Default |
+-----+-----+-----+-----+-----+
| rname | character varying(25) | | not null |
| rbranch | character varying(25) | | not null |
| foodname | character varying(50) | | not null |
| ingredient | character varying(25) | | not null |
Indexes:
"food_ingredient_pkey" PRIMARY KEY, btree (rname, rbranch, foodname, ingredient)
Foreign-key constraints:
"food_ingredient_ingredient_fkey" FOREIGN KEY (ingredient) REFERENCES ingredient(id) ON UPDATE CASCADE ON DELETE CASCADE
"food_ingredient_rname_fkey" FOREIGN KEY (rname, rbranch, foodname) REFERENCES food(rname, rbranch, foodname) ON UPDATE CASCADE ON DELETE CASCADE
db22a003=> █
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO FOOD_INGREDIENT VALUES
db22a003->      ('Sunda Food','Sutteridge','Milk','I5'),
db22a003->      ('Sunda Food','Paget Terrace','Bread','I19'),
db22a003->      ('Burger Queen','Eagle','Fried Rice','I18'),
db22a003->      ('Venti''s','Dandelion','Cheese','I10'),
db22a003->      ('Pizza Hat','Derek Crossing','Rendang','I15'),
db22a003->      ('Kaswel','Gale','Sandwich','I3'),
db22a003->      ('Chickenies','Almo Drive','Pancake','I20'),
db22a003->      ('Rice-To','Linden Court','Pie','I11'),
db22a003->      ('Golden Star','Krajan','Steak','I20'),
db22a003->      ('Foresta','Matumadua','Pizza','I13'),
db22a003->      ('Sunda Food','Sutteridge','Donuts','I19'),
db22a003->      ('Sunda Food','Paget Terrace','Salad','I20'),
db22a003->      ('Burger Queen','Eagle','Meatball','I4'),
db22a003->      ('Venti''s','Dandelion','GrilledChicken','I17'),
db22a003->      ('Pizza Hat','Derek Crossing','Hamburger','I17'),
db22a003->      ('Kaswel','Gale','Tuna','I12'),
db22a003->      ('Chickenies','Almo Drive','Noodles','I13'),
db22a003->      ('Rice-To','Linden Court','Egg','I20'),
db22a003->      ('Golden Star','Krajan','Bacon','I2'),
db22a003->      ('Foresta','Matumadua','Waffle','I11'),
db22a003->      ('Sunda Food','Sutteridge','FrenchFries','I18'),
db22a003->      ('Sunda Food','Paget Terrace','Biryani','I6'),
db22a003->      ('Burger Queen','Eagle','Pasta','I7'),
db22a003->      ('Venti''s','Dandelion','SmokedSalmon','I2'),
db22a003->      ('Pizza Hat','Derek Crossing','Mayonnaise','I18'),
db22a003->      ('Kaswel','Gale','Taco','I15'),
db22a003->      ('Chickenies','Almo Drive','Hotdog','I6'),
db22a003->      ('Rice-To','Linden Court','Dosa','I15'),
db22a003->      ('Golden Star','Krajan','Chocolate','I7'),
db22a003->      ('Foresta','Matumadua','IceCream','I6');
INSERT 0 30
db22a003=> █
```

### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM FOOD_INGREDIENT;
   rname    |   rbranch    |   foodname   | ingredient
-----+-----+-----+-----+
  Sunda Food | Sutteridge | Milk | I5
  Sunda Food | Paget Terrace | Bread | I19
  Burger Queen | Eagle | Fried Rice | I18
  Venti's | Dandelion | Cheese | I10
  Pizza Hat | Derek Crossing | Rendang | I15
  Kaswel | Gale | Sandwich | I3
  Chickenies | Almo Drive | Pancake | I20
  Rice-To | Linden Court | Pie | I11
  Golden Star | Krajan | Steak | I20
  Foresta | Matumadua | Pizza | I13
  Sunda Food | Sutteridge | Donuts | I19
  Sunda Food | Paget Terrace | Salad | I20
  Burger Queen | Eagle | Meatball | I4
  Venti's | Dandelion | GrilledChicken | I17
  Pizza Hat | Derek Crossing | Hamburger | I17
  Kaswel | Gale | Tuna | I12
  Chickenies | Almo Drive | Noodles | I13
  Rice-To | Linden Court | Egg | I20
  Golden Star | Krajan | Bacon | I2
  Foresta | Matumadua | Waffle | I11
  Sunda Food | Sutteridge | FrenchFries | I18
  Sunda Food | Paget Terrace | Biryani | I6
  Burger Queen | Eagle | Pasta | I7
  Venti's | Dandelion | SmokedSalmon | I2
  Pizza Hat | Derek Crossing | Mayonnaise | I18
  Kaswel | Gale | Taco | I15
  Chickenies | Almo Drive | Hotdog | I6
  Rice-To | Linden Court | Dosa | I15
  Golden Star | Krajan | Chocolate | I7
  Foresta | Matumadua | IceCream | I6
(30 rows)

db22a003=> █
```

## Bagian m: TRANSACTION

### 1. Membuat tabel TRANSACTION

```
db22a003=> CREATE TABLE TRANSACTION (
db22a003(> Email VARCHAR(50) NOT NULL,
db22a003(> Datetime TIMESTAMP NOT NULL,
db22a003(> Street VARCHAR(30) NOT NULL,
db22a003(> District VARCHAR(30) NOT NULL,
db22a003(> City VARCHAR(25) NOT NULL,
db22a003(> Province VARCHAR(25) NOT NULL,
db22a003(> TotalFood INT NOT NULL,
db22a003(> TotalDiscount Float NOT NULL,
db22a003(> DeliveryFee Float NOT NULL,
db22a003(> TotalPrice Float NOT NULL,
db22a003(> Rating INT NOT NULL,
db22a003(> PMId VARCHAR(25) NOT NULL,
db22a003(> PSId VARCHAR(25) NOT NULL,
db22a003(> DFId VARCHAR(20) NOT NULL,
db22a003(> CourierId VARCHAR(50) NOT NULL,
db22a003(> PRIMARY KEY>Email, Datetime),
db22a003(> FOREIGN KEY (Email) REFERENCES CUSTOMER>Email) ON UPDATE CASCADE ON DELETE CASCADE,
db22a003(> FOREIGN KEY (PMId) REFERENCES PAYMENT_METHOD(Id) ON UPDATE CASCADE ON DELETE CASCADE,
db22a003(> FOREIGN KEY (PSId) REFERENCES PAYMENT_STATUS(Id) ON UPDATE CASCADE ON DELETE CASCADE,
db22a003(> FOREIGN KEY (DFId) REFERENCES DELIVERY_FEE_PER_KM(Id) ON UPDATE CASCADE ON DELETE CASCADE,
db22a003(> FOREIGN KEY (CourierId) REFERENCES COURIER>Email) ON UPDATE CASCADE ON DELETE CASCADE);
CREATE TABLE
db22a003=> █
```

### 2. Struktur data TRANSACTION

```
db22a003=> \d TRANSACTION
Table "sirest.transaction"
 Column | Type | Collation | Nullable | Default
-----+-----+-----+-----+-----+
email | character varying(50) | | not null |
datetime | timestamp without time zone | | not null |
street | character varying(30) | | not null |
district | character varying(30) | | not null |
city | character varying(25) | | not null |
province | character varying(25) | | not null |
totalfood | integer | | not null |
totaldiscount | double precision | | not null |
deliveryfee | double precision | | not null |
totalprice | double precision | | not null |
rating | integer | | not null |
pmid | character varying(25) | | not null |
psid | character varying(25) | | not null |
dfid | character varying(20) | | not null |
courierid | character varying(50) | | not null |
Indexes:
"transaction_pkey" PRIMARY KEY, btree (email, datetime)
Foreign-key constraints:
"transaction_courierid_fkey" FOREIGN KEY (courierid) REFERENCES courier(email) ON UPDATE CASCADE
ON DELETE CASCADE
"transaction_dfid_fkey" FOREIGN KEY (dfid) REFERENCES delivery_fee_per_km(id) ON UPDATE CASCADE ON
DELETE CASCADE
"transaction_email_fkey" FOREIGN KEY (email) REFERENCES customer(email) ON UPDATE CASCADE ON DELE
TE CASCADE
"transaction_pmid_fkey" FOREIGN KEY (pmid) REFERENCES payment_method(id) ON UPDATE CASCADE ON DEL
E CASCADE
"transaction_psid_fkey" FOREIGN KEY (psid) REFERENCES payment_status(id) ON UPDATE CASCADE ON DEL
E CASCADE
Referenced by:
TABLE "transaction_food" CONSTRAINT "transaction_food_email_fkey" FOREIGN KEY (email, datetime) R
EFERENCES transaction(email, datetime) ON UPDATE CASCADE ON DELETE CASCADE
TABLE "transaction_history" CONSTRAINT "transaction_history_email_fkey" FOREIGN KEY (email, datet
ime) REFERENCES transaction(email, datetime) ON UPDATE CASCADE ON DELETE CASCADE
db22a003=> █
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO TRANSACTION VALUES
db22a003->      ('dguiraudn@jiathis.com','2022-08-15 09:23:03','5633 5th Road','Eagle','Merdeka','West Sulawesi',2.0,0
.0,11000.0,59000.0,4.0,'PM1','PS2','D3','ringlis7@sohu.com'),
db22a003->      ('criddiougho@google.ru','2022-09-12 15:05:20','0632 Ongard Terrace','Dandelion','Rosh Pinna','North
Java',1.0,0.0,12000.0,35000.0,5.0,'PM3','PS2','D4','gbuckthorp8@forbes.com'),
db22a003->      ('sklugmani@reference.com','2022-09-13 13:21:45','262 Derek Crossing','Okeanos','Nevytsake','South Java
',3.0,0.0,15000.0,90000.0,5.0,'PM3','PS2','D5','lgrgic9@ftc.gov'),
db22a003->      ('etantk@deviantart.com','2020-06-28 15:14:22','5234 Homewood Avenue','Gale','Aettal','East Sulawesi',
3.0,0.0,10000.0,40000.0,5.0,'PM5','PS2','D6','ctoppina@blogs.com'),
db22a003->      ('rbleacherr@baidu.com','2022-03-23 09:48:25','626 Almo Drive','Flora','Wangpu','North Sumatera',2.0,0
.0,16000.0,41000.0,3.0,'PM1','PS2','D7','gbalfourb@vinaora.com'),
db22a003->      ('gburfordg@chron.com','2022-10-06 11:12:17','74 Linden Court','Rose','Haarlem','South Sumatera',5.0,0
.0,14000.0,79000.0,1.0,'PM5','PS2','D8','bmaytmc@quantcast.com'),
db22a003->      ('wrawsthorneh@loc.gov','2021-12-21 13:21:43','2 Northland Crossing','Buffalo','Krajan','Central Java
',2.0,3000.0,15000.0,72000.0,4.0,'PM5','PS3','D9','gbalfourb@vinaora.com'),
db22a003->      ('sklugmani@reference.com','2020-05-19 13:25:54','61 Utah Way','Eagle','Matumadua','East Kalimantan',4
.0,9800.0,8000.0,194200.0,5.0,'PM1','PS3','D10','gbuckthorp8@forbes.com'),
db22a003->      ('lcatelli@bing.com','2022-05-23 13:43:29','526 Sutteridge Trail','Rose','Shuishi','West Java',14.0,0
.0,15000.0,295000.0,5.0,'PM5','PS2','D11','lgrgic9@ftc.gov'),
db22a003->      ('etantk@deviantart.com','2021-07-15 14:34:21','74 Linden Court','Rose','Haarlem','South Sumatera',1.0
,0.0,20000.0,23000.0,4.0,'PM2','PS1','D8','bmaytmc@quantcast.com');
INSERT 0 10
db22a003=> █
```

### 4. Memperlihatkan data

email	datetime	street	district	city	province	totalfood	totaldiscount	deliveryfee
totalprice	rating	pmid	psid	dfid	courierid			
dguiraudn@jiathis.com	2022-08-15 09:23:03	5633 5th Road	Eagle	Merdeka	West Sulawesi	2	0	11000
59000	4	PM1	PS2	D3	ringlis7@sohu.com			
criddiougho@google.ru	2022-09-12 15:05:20	0632 Ongard Terrace	Dandelion	Rosh Pinna	North Java	1	0	12000
35000	5	PM3	PS2	D4	gbuckthorp8@forbes.com			
sklugmani@reference.com	2022-09-13 13:21:45	262 Derek Crossing	Okeanos	Nevytsake	South Java	3	0	15000
90000	5	PM3	PS2	D5	lgrgic9@ftc.gov			
etantk@deviantart.com	2020-06-28 15:14:22	5234 Homewood Avenue	Gale	Aettal	East Sulawesi	3	0	10000
40000	5	PM5	PS2	D6	ctoppina@blogs.com			
rbleacherr@baidu.com	2022-03-23 09:48:25	626 Almo Drive	Flora	Wangpu	North Sumatera	2	0	16000
41000	3	PM1	PS2	D7	gbalfourb@vinaora.com			
gburfordg@chron.com	2022-10-06 11:12:17	74 Linden Court	Rose	Haarlem	South Sumatera	5	0	14000
79000	1	PM5	PS2	D8	bmaytmc@quantcast.com			
wrawsthorneh@loc.gov	2021-12-21 13:21:43	2 Northland Crossing	Buffalo	Krajan	Central Java	2	3000	15000
72000	4	PM5	PS3	D9	gbalfourb@vinaora.com			
sklugmani@reference.com	2020-05-19 13:25:54	61 Utah Way	Eagle	Matumadua	East Kalimantan	4	9800	8000
194200	5	PM1	PS3	D10	gbuckthorp8@forbes.com			
lcatelli@bing.com	2022-05-23 13:43:29	526 Sutteridge Trail	Rose	Shuishi	West Java	14	0	15000
295000	5	PM5	PS2	D11	lgrgic9@ftc.gov			
etantk@deviantart.com	2021-07-15 14:34:21	74 Linden Court	Rose	Haarlem	South Sumatera	1	0	20000
(10 rows)								

```
(END) █
```

## Bagian n: DELIVERY\_FEE\_PER\_KM

### 1. Membuat tabel DELIVERY\_FEE\_PER\_KM

```
db22a003=> CREATE TABLE DELIVERY_FEE_PER_KM (
db22a003(> Id VARCHAR(20) NOT NULL,
db22a003(> Province VARCHAR(25) NOT NULL,
db22a003(> MotorFee INT NOT NULL,
db22a003(> CarFee INT NOT NULL,
db22a003(> PRIMARY KEY (Id)
db22a003(> );
CREATE TABLE
db22a003=> █
```

### 2. Struktur data DELIVERY\_FEE\_PER\_KM

Table "sirest.delivery_fee_per_km"				
Column	Type	Collation	Nullable	Default
id	character varying(20)		not null	
province	character varying(25)		not null	
motorfee	integer		not null	
carfee	integer		not null	

Indexes:

"delivery\_fee\_per\_km\_pkey" PRIMARY KEY, btree (id)

Referenced by:

TABLE "transaction" CONSTRAINT "transaction\_dfid\_fkey" FOREIGN KEY (dfid) REFERENCES delivery\_fee\_per\_km(id) ON UPDATE CASCADE ON DELETE CASCADE

```
db22a003=> █
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO DELIVERY_FEE_PER_KM VALUES
db22a003->      ('D1','West Java',10000.0,15000.0),
db22a003->      ('D2','East Java',20000.0,25000.0),
db22a003->      ('D3','West Sulawesi',11000.0,16000.0),
db22a003->      ('D4','North Java',12000.0,17000.0),
db22a003->      ('D5','South Java',15000.0,20000.0),
db22a003->      ('D6','East Sulawesi',10000.0,14000.0),
db22a003->      ('D7','North Sumatera',12000.0,16000.0),
db22a003->      ('D8','South Sumatera',9000.0,14000.0),
db22a003->      ('D9','Central Java',10000.0,15000.0),
db22a003->      ('D10','East Kalimantan',8000.0,13000.0);
INSERT 0 10
db22a003=>
```

### 4. Memerlihatkan data

```
db22a003=> SELECT * FROM DELIVERY_FEE_PER_KM;
+----+-----+-----+-----+
| id | province | motorfee | carfee |
+----+-----+-----+-----+
| D1 | West Java | 10000 | 15000 |
| D2 | East Java | 20000 | 25000 |
| D3 | West Sulawesi | 11000 | 16000 |
| D4 | North Java | 12000 | 17000 |
| D5 | South Java | 15000 | 20000 |
| D6 | East Sulawesi | 10000 | 14000 |
| D7 | North Sumatera | 12000 | 16000 |
| D8 | South Sumatera | 9000 | 14000 |
| D9 | Central Java | 10000 | 15000 |
| D10 | East Kalimantan | 8000 | 13000 |
+----+-----+-----+-----+
(10 rows)
```

## Bagian o: PAYMENT\_METHOD

### 1. Membuat tabel PAYMENT\_METHOD

```
db22a003=> CREATE TABLE PAYMENT_METHOD (
db22a003(> Id VARCHAR(25) NOT NULL,
db22a003(> Name VARCHAR(25) NOT NULL,
db22a003(> PRIMARY KEY (Id)
db22a003(> );
CREATE TABLE
db22a003=>
```

### 2. Struktur data PAYMENT\_METHOD

```
db22a003=> \d PAYMENT_METHOD
Table "sirest.payment_method"
 Column | Type | Collation | Nullable | Default
+-----+-----+-----+-----+
id | character varying(25) | | not null |
name | character varying(25) | | not null |
Indexes:
"payment_method_pkey" PRIMARY KEY, btree (id)
Referenced by:
    TABLE "transaction" CONSTRAINT "transaction_pmid_fkey" FOREIGN KEY (pmid) REFERENCES payment_method(id) ON UPDATE CASCADE
ON DELETE CASCADE
db22a003=>
```

3. Memasukkan data

```
db22a003=> INSERT INTO PAYMENT_METHOD VALUES
db22a003->      ('PM1','ATM'),
db22a003->      ('PM2','m-banking'),
db22a003->      ('PM3','Indomaret/Alfamart'),
db22a003->      ('PM4','RestoPay'),
db22a003->      ('PM5','e-wallet');
INSERT 0 5
db22a003=> █
```

4. Memperlihatkan data

```
db22a003=> SELECT * FROM PAYMENT_METHOD;
   id |          name
-----+-----
  PM1 | ATM
  PM2 | m-banking
  PM3 | Indomaret/Alfamart
  PM4 | RestoPay
  PM5 | e-wallet
(5 rows)
```

### Bagian p: PAYMENT\_STATUS

1. Membuat tabel PAYMENT\_STATUS

```
db22a003=> SET search_path to SIREST;
SET
db22a003=> CREATE TABLE PAYMENT_STATUS (
db22a003(> id VARCHAR(25) NOT NULL,
db22a003(> Name VARCHAR(25) NOT NULL,
db22a003(> PRIMARY KEY (id)
db22a003(> );
CREATE TABLE
db22a003=> █
```

2. Struktur data PAYMENT\_STATUS

```
db22a003=> \d PAYMENT_STATUS
Table "sirest.payment_status"
 Column |          Type          | Collation | Nullable | Default
-----+----------------+-----+-----+-----+
  id  | character varying(25) |          | not null |
  name | character varying(25) |          | not null |
Indexes:
  "payment_status_pkey" PRIMARY KEY, btree (id)
Referenced by:
  TABLE "transaction" CONSTRAINT "transaction_psid_fkey" FOREIGN KEY (psid) REFERENCES payment_status(id) ON UPDATE CASCADE
ON DELETE CASCADE
db22a003=> █
```

3. Memasukkan data

```
db22a003=> INSERT INTO PAYMENT_STATUS VALUES
db22a003->      ('PS1', 'Menunggu Pembayaran'),
db22a003->      ('PS2', 'Berhasil'),
db22a003->      ('PS3', 'Gagal');
INSERT 0 3
db22a003=> █
```

4. Memperlihatkan data

```
db22a003=> SELECT * FROM PAYMENT_STATUS;
  id |          name
-----+
  PS1 | Menunggu Pembayaran
  PS2 | Berhasil
  PS3 | Gagal
(3 rows)
```

### Bagian q: TRANSACTION\_STATUS

1. Membuat tabel TRANSACTION\_STATUS

```
db22a003=> CREATE TABLE TRANSACTION_STATUS (
db22a003(> Id VARCHAR(25) NOT NULL,
db22a003(> Name VARCHAR(25) NOT NULL,
db22a003(> PRIMARY KEY (Id)
db22a003(> );
CREATE TABLE
db22a003=> █
```

2. Struktur data TRANSACTION\_STATUS

```
db22a003=> \d TRANSACTION_STATUS
Table "sirest.transaction_status"
 Column |          Type          | Collation | Nullable | Default
-----+-----+-----+-----+
 id   | character varying(25) |           | not null |
 name | character varying(25) |           | not null |
Indexes:
 "transaction_status_pkey" PRIMARY KEY, btree (id)
Referenced by:
 TABLE "transaction_history" CONSTRAINT "transaction_history_tsid_fkey" FOREIGN KEY (tsid) REFERENCES transaction_status(id)
) ON UPDATE CASCADE ON DELETE CASCADE
db22a003=> █
```

3. Memasukkan data

```
db22a003=> INSERT INTO TRANSACTION_STATUS VALUES
db22a003->      ('TS1','Menunggu Konfirmasi Resto'),
db22a003->      ('TS2','Pesanan Dibuat'),
db22a003->      ('TS3','Pesanan Diantar'),
db22a003->      ('TS4','Pesanan Selesai'),
db22a003->      ('TS5','Pesanan Dibatalkan');
INSERT 0 5
db22a003=> █
```

4. Memperlihatkan data

```
  id |          name
-----+
  TS1 | Menunggu Konfirmasi Resto
  TS2 | Pesanan Dibuat
  TS3 | Pesanan Diantar
  TS4 | Pesanan Selesai
  TS5 | Pesanan Dibatalkan
(5 rows)
```

## Bagian r: TRANSACTION\_FOOD

### 1. Membuat tabel TRANSACTION\_FOOD

```
db22a003=> CREATE TABLE TRANSACTION_FOOD (
db22a003(> Email VARCHAR(50) NOT NULL,
db22a003(> Datetime TIMESTAMP NOT NULL,
db22a003(> RName VARCHAR(50) NOT NULL,
db22a003(> RBranch VARCHAR(25) NOT NULL,
db22a003(> FoodName VARCHAR(50) NOT NULL,
db22a003(> Amount INT NOT NULL,
db22a003(> Note VARCHAR(255),
db22a003(> PRIMARY KEY (Email, Datetime, RName, RBranch, FoodName),
db22a003(> FOREIGN KEY (Email, Datetime) REFERENCES TRANSACTION>Email, Datetime) ON UPDATE CASCADE ON DELETE CASCADE,
db22a003(> FOREIGN KEY (RName, RBranch, FoodName) REFERENCES FOOD>RName, RBranch, FoodName) ON UPDATE CASCADE ON DELETE CASCADE);
CREATE TABLE
db22a003=>
```

### 2. Struktur data TRANSACTION\_FOOD

```
db22a003=> \d TRANSACTION_FOOD
      Table "sirest.transaction_food"
 Column |          Type          | Collation | Nullable | Default
-----+---------------------+-----+-----+-----+
 email  | character varying(50) |          | not null |
 datetime | timestamp without time zone |          | not null |
 rname  | character varying(50) |          | not null |
 rbranch | character varying(25) |          | not null |
 foodname | character varying(50) |          | not null |
 amount  | integer |          | not null |
 note    | character varying(255) |          |          |
Indexes:
 "transaction_food_pkey" PRIMARY KEY, btree (email, datetime, rname, rbranch, foodname)
Foreign-key constraints:
 "transaction_food_email_fkey" FOREIGN KEY (email, datetime) REFERENCES transaction(email, datetime) ON UPDATE CASCADE ON DELETE CASCADE
 "transaction_food_rname_fkey" FOREIGN KEY (rname, rbranch, foodname) REFERENCES food(rname, rbranch, foodname) ON UPDATE CASCADE ON DELETE CASCADE
db22a003=>
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO TRANSACTION_FOOD VALUES
db22a003->     ('gburfordg@chron.com','2022-10-06 11:12:17','Rice-To','Linden Court','Pie',5.0,NULL),
db22a003->     ('wrawsthorneh@loc.gov','2021-12-21 13:21:43','Golden Star','Krajan','Steak',2.0,'saus dipisah'),
db22a003->     ('sklugmani@reference.com','2020-05-19 13:25:54','Foresta','Matumadua','Pizza',4.0,NULL),
db22a003->     ('lcattellj@bing.com','2022-05-23 13:43:29','Sunda Food','Sutteridge','Milk',8.0,'dengan sedotan'),
db22a003->     ('lcattellj@bing.com','2022-05-23 13:43:29','Sunda Food','Sutteridge','Donuts',6.0,NULL),
db22a003->     ('dquiraudn@jiathis.com','2022-08-15 09:23:03','Burger Queen','Eagle','Fried Rice',2.0,'pedas'),
db22a003->     ('criddiougho@google.ru','2022-09-12 15:05:20','Venti''s','Dandelion','GrilledChicken',1.0,'tidak pedas'),
db22a003->     ('sklugmani@reference.com','2022-09-13 13:21:45','Pizza Hat','Derek Crossing','Hamburger',3.0,'tanpa selada'),
db22a003->     ('etantk@deviantart.com','2020-06-28 15:14:22','Kaswel','Gale','Sandwich',3.0,NULL),
db22a003->     ('rbleacherr@baidu.com','2022-03-23 09:48:25','Chickienies','Almo Drive','Pancake',2.0,NULL),
db22a003->     ('etantk@deviantart.com','2021-07-15 14:34:21','Rice-To','Linden Court','Egg',1.0,NULL);
INSERT 0 11
db22a003=>
```

### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM TRANSACTION_FOOD;
      email |      datetime |      rname |      rbranch |      foodname |      amount |      note
-----+-----+-----+-----+-----+-----+-----+
gburfordg@chron.com | 2022-10-06 11:12:17 | Rice-To | Linden Court | Pie | 5 | 
wrawsthorneh@loc.gov | 2021-12-21 13:21:43 | Golden Star | Krajan | Steak | 2 | saus dipisah
sklugmani@reference.com | 2020-05-19 13:25:54 | Foresta | Matumadua | Pizza | 4 | 
lcattellj@bing.com | 2022-05-23 13:43:29 | Sunda Food | Sutteridge | Milk | 8 | dengan sedotan
lcattellj@bing.com | 2022-05-23 13:43:29 | Sunda Food | Sutteridge | Donuts | 6 | 
dquiraudn@jiathis.com | 2022-08-15 09:23:03 | Burger Queen | Eagle | Fried Rice | 2 | pedas
criddiougho@google.ru | 2022-09-12 15:05:20 | Venti's | Dandelion | GrilledChicken | 1 | tidak pedas
sklugmani@reference.com | 2022-09-13 13:21:45 | Pizza Hat | Derek Crossing | Hamburger | 3 | tanpa selada
etantk@deviantart.com | 2020-06-28 15:14:22 | Kaswel | Gale | Sandwich | 3 | 
rbleacherr@baidu.com | 2022-03-23 09:48:25 | Chickienies | Almo Drive | Pancake | 2 | 
etantk@deviantart.com | 2021-07-15 14:34:21 | Rice-To | Linden Court | Egg | 1 | 
(11 rows)
db22a003=>
```

## Bagian s: TRANSACTION\_HISTORY

### 1. Membuat tabel TRANSACTION\_HISTORY

```
db22a003=> CREATE TABLE TRANSACTION_HISTORY (
db22a003(> Email VARCHAR(50) NOT NULL,
db22a003(> Datetime TIMESTAMP NOT NULL,
db22a003(> TSId VARCHAR(25) NOT NULL,
db22a003(> DatetimeStatus VARCHAR(20) NOT NULL,
db22a003(> PRIMARY KEY (Email, Datetime, TSId),
db22a003(> FOREIGN KEY (Email, Datetime) REFERENCES TRANSACTION(Email, Datetime) ON UPDATE CASCADE ON DELETE CASCADE,
db22a003(> FOREIGN KEY (TSId) REFERENCES TRANSACTION_STATUS(Id) ON UPDATE CASCADE ON DELETE CASCADE);
CREATE TABLE
db22a003=>
```

### 2. Struktur data TRANSACTION\_HISTORY

```
db22a003=> \d TRANSACTION_HISTORY
Table "sirest.transaction_history"
 Column |          Type          | Collation | Nullable | Default
-----+---------------------+-----+-----+-----+
email  | character varying(50) |          | not null |
datetime | timestamp without time zone |          | not null |
tsid   | character varying(25) |          | not null |
datetimestatus | character varying(20) |          | not null |
Indexes:
"transaction_history_pkey" PRIMARY KEY, btree (email, datetime, tsid)
Foreign-key constraints:
"transaction_history_email_fkey" FOREIGN KEY (email, datetime) REFERENCES transaction(email, datetime) ON UPDATE CASCADE ON
DELETE CASCADE
"transaction_history_tsid_fkey" FOREIGN KEY (tsid) REFERENCES transaction_status(id) ON UPDATE CASCADE ON DELETE CASCADE
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO TRANSACTION_HISTORY VALUES
db22a003->     ('dguiraudn@jiathis.com','2022-08-15 09:23:03','TS4','2022-08-15 09:53:03'),
db22a003->     ('criddiougho@google.ru','2022-09-12 15:05:20','TS4','2022-09-12 15:45:20'),
db22a003->     ('sklugmani@reference.com','2022-09-13 13:21:45','TS4','2022-09-13 13:47:45'),
db22a003->     ('etantk@deviantart.com','2020-06-28 15:14:22','TS4','2020-06-28 15:59:42'),
db22a003->     ('rbleacherr@baidu.com','2022-03-23 09:48:25','TS4','2022-03-23 10:03:25'),
db22a003->     ('gburfordg@chron.com','2022-10-06 11:12:17','TS4','2022-10-06 11:59:17'),
db22a003->     ('wrawsthorneh@loc.gov','2021-12-21 13:21:43','TS5','2021-12-21 13:51:43'),
db22a003->     ('sklugmani@reference.com','2020-05-19 13:25:54','TS5','2020-05-19 14:00:54'),
db22a003->     ('lcattellj@bing.com','2022-05-23 13:43:29','TS3','2022-05-23 13:49:29'),
db22a003->     ('etantk@deviantart.com','2021-07-15 14:34:21','TS1','2021-07-15 14:36:21');
INSERT 0 10
db22a003=>
```

### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM TRANSACTION_HISTORY;
      email       |      datetime       |    tsid    | datetimestatus
-----+-----+-----+-----+
dguiraudn@jiathis.com | 2022-08-15 09:23:03 | TS4 | 2022-08-15 09:53:03
criddiougho@google.ru | 2022-09-12 15:05:20 | TS4 | 2022-09-12 15:45:20
sklugmani@reference.com | 2022-09-13 13:21:45 | TS4 | 2022-09-13 13:47:45
etantk@deviantart.com | 2020-06-28 15:14:22 | TS4 | 2020-06-28 15:59:42
rbleacherr@baidu.com | 2022-03-23 09:48:25 | TS4 | 2022-03-23 10:03:25
gburfordg@chron.com | 2022-10-06 11:12:17 | TS4 | 2022-10-06 11:59:17
wrawsthorneh@loc.gov | 2021-12-21 13:21:43 | TS5 | 2021-12-21 13:51:43
sklugmani@reference.com | 2020-05-19 13:25:54 | TS5 | 2020-05-19 14:00:54
lcattellj@bing.com | 2022-05-23 13:43:29 | TS3 | 2022-05-23 13:49:29
etantk@deviantart.com | 2021-07-15 14:34:21 | TS1 | 2021-07-15 14:36:21
(10 rows)

db22a003=>
```

## Bagian t: PROMO

### 1. Membuat tabel PROMO

```
db22a003=> CREATE TABLE PROMO (
db22a003(> id VARCHAR(25) NOT NULL,
db22a003(> PromoName VARCHAR(25) NOT NULL,
db22a003(> discount integer,
db22a003(> check (discount between 1 and 100),
db22a003(> PRIMARY KEY (id)
db22a003(> );
CREATE TABLE
```

### 2. Struktur data PROMO

```
db22a003=> \d PROMO
      Table "sirest.promo"
 Column |          Type          | Collation | Nullable | Default
-----+---------------------+-----+-----+-----+
 id   | character varying(25) |          | not null |
 promoname | character varying(25) |          | not null |
 discount | integer            |          |          |
Indexes:
 "promo_pkey" PRIMARY KEY, btree (id)
Check constraints:
 "promo_discount_check" CHECK (discount >= 1 AND discount <= 100)
Referenced by:
 TABLE "min_transaction_promo" CONSTRAINT "min_transaction_promo_id_fkey" FOREIGN KEY (id) REFERENCES promo(id) ON DELETE C
ASCADE
 TABLE "restaurant_promo" CONSTRAINT "restaurant_promo_pid_fkey" FOREIGN KEY (pid) REFERENCES promo(id) ON UPDATE CASCADE O
N DELETE CASCADE
 TABLE "special_day_promo" CONSTRAINT "special_day_promo_id_fkey" FOREIGN KEY (id) REFERENCES promo(id) ON DELETE CASCADE
db22a003=>
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO PROMO VALUES
db22a003->      ('SDP1','Tahun Baru',30.0),
db22a003->      ('SDP2','CNY',10.0),
db22a003->      ('SDP3','Hari Pancasila',5.0),
db22a003->      ('SDP4','Idul Fitri',25.0),
db22a003->      ('SDP5','Idul Adha',15.0),
db22a003->      ('SDP6','Natal',25.0),
db22a003->      ('SDP7','HUT RI',17.0),
db22a003->      ('SDP8','Maulid',10.0),
db22a003->      ('SDP9','Waisak',10.0),
db22a003->      ('SDP10','Hari Kartini',5.0),
db22a003->      ('MTP1','YUK50',20.0),
db22a003->      ('MTP2','YUK25',10.0),
db22a003->      ('MTP3','YUK20',5.0),
db22a003->      ('MTP4','GAS20',5.0),
db22a003->      ('MTP5','GAS25',10.0),
db22a003->      ('MTP6','GAS50',20.0),
db22a003->      ('MTP7','NGENG25',10.0),
db22a003->      ('MTP8','NGENG50',20.0),
db22a003->      ('MTP9','FS75',30.0),
db22a003->      ('MTP10','FS100',50.0);
INSERT 0 20
db22a003=>
```

#### 4. Memperlihatkan data

```
db22a003=> SELECT * FROM PROMO;
   id | promoname | discount
-----+-----+-----+
  SDP1 | Tahun Baru |      30
  SDP2 | CNY        |      10
  SDP3 | Hari Pancasila |      5
  SDP4 | Idul Fitri |     25
  SDP5 | Idul Adha |     15
  SDP6 | Natal       |     25
  SDP7 | HUT RI     |     17
  SDP8 | Maulid      |     10
  SDP9 | Waisak      |     10
  SDP10 | Hari Kartini |      5
 MTP1 | YUK50      |     20
 MTP2 | YUK25      |     10
 MTP3 | YUK20      |      5
 MTP4 | GAS20      |      5
 MTP5 | GAS25      |     10
 MTP6 | GAS50      |     20
 MTP7 | NGENG25    |     10
 MTP8 | NGENG50    |     20
 MTP9 | FS75       |     30
 MTP10 | FS100      |     50
(20 rows)

db22a003=>
```

### Bagian u: MIN\_TRANSACTION\_PROMO

#### 1. Membuat tabel MIN\_TRANSACTION\_PROMO

```
db22a003=> CREATE TABLE MIN_TRANSACTION_PROMO (
db22a003(> id VARCHAR(25) NOT NULL,
db22a003(> MinimumTransactionNum INT NOT NULL,
db22a003(> PRIMARY KEY (id),
db22a003(> FOREIGN KEY (id) REFERENCES PROMO (id) ON DELETE CASCADE
db22a003(> );
CREATE TABLE
```

#### 2. Struktur data MIN\_TRANSACTION\_PROMO

```
db22a003=> \d MIN_TRANSACTION_PROMO
Table "sirest.min_transaction_promo"
 Column          | Type            | Collation | Nullable | Default
-----+-----+-----+-----+-----+
 id   | character varying(25) |           | not null |
 minimumtransactionnum | integer        |           | not null |
Indexes:
 "min_transaction_promo_pkey" PRIMARY KEY, btree (id)
Foreign-key constraints:
 "min_transaction_promo_id_fkey" FOREIGN KEY (id) REFERENCES promo(id) ON DELETE CASCADE
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO MIN_TRANSACTION_PROMO VALUES
db22a003->      ('MTP1',50000),
db22a003->      ('MTP2',25000),
db22a003->      ('MTP3',20000),
db22a003->      ('MTP4',20000),
db22a003->      ('MTP5',25000),
db22a003->      ('MTP6',50000),
db22a003->      ('MTP7',25000),
db22a003->      ('MTP8',77777),
db22a003->      ('MTP9',75000),
db22a003->      ('MTP10',100000);
INSERT 0 10
```

### 4. Memerlihatkan data

```
db22a003=> SELECT * FROM MIN_TRANSACTION_PROMO;
   id    | minimumtransactionnum
-----+-----
 MTP1  |          50000
 MTP2  |          25000
 MTP3  |          20000
 MTP4  |          20000
 MTP5  |          25000
 MTP6  |          50000
 MTP7  |          25000
 MTP8  |          77777
 MTP9  |          75000
 MTP10 |         100000
(10 rows)
```

## Bagian v: SPECIAL\_DAY\_PROMO

### 1. Membuat tabel SPECIAL\_DAY\_PROMO

```
db22a003=> CREATE TABLE SPECIAL_DAY_PROMO (
db22a003(> id VARCHAR(25) NOT NULL,
db22a003(> Date timestamp NOT NULL,
db22a003(> PRIMARY KEY (id),
db22a003(> FOREIGN KEY (id) REFERENCES PROMO (id) ON DELETE CASCADE
db22a003(> );
CREATE TABLE
```

### 2. Struktur data SPECIAL\_DAY\_PROMO

```
db22a003=> \d SPECIAL_DAY_PROMO
              Table "sirest.special_day_promo"
 Column |          Type          | Collation | Nullable | Default
-----+-----+-----+-----+-----+
 id    | character varying(25) |           | not null |
 date  | timestamp without time zone |           | not null |
Indexes:
 "special_day_promo_pkey" PRIMARY KEY, btree (id)
Foreign-key constraints:
 "special_day_promo_id_fkey" FOREIGN KEY (id) REFERENCES promo(id) ON DELETE
CASCADE
db22a003=> █
```

### 3. Memasukkan data

```
db22a003=> INSERT INTO SPECIAL_DAY_PROMO VALUES
db22a003->      ('SDP1','2023-01-01 00:00:00'),
db22a003->      ('SDP2','2023-01-22 00:00:00'),
db22a003->      ('SDP3','2023-06-01 00:00:00'),
db22a003->      ('SDP4','2023-04-22 00:00:00'),
db22a003->      ('SDP5','2023-06-28 00:00:00'),
db22a003->      ('SDP6','2023-12-25 00:00:00'),
db22a003->      ('SDP7','2023-08-17 00:00:00'),
db22a003->      ('SDP8','2023-09-26 00:00:00'),
db22a003->      ('SDP9','2023-05-05 00:00:00'),
db22a003->      ('SDP10','2023-04-21 00:00:00');
INSERT 0 10
```

### 4. Memerlihatkan data

```
db22a003=> SELECT * FROM SPECIAL_DAY_PROMO;
   id      |          date
-----+-----
 SDP1  | 2023-01-01 00:00:00
 SDP2  | 2023-01-22 00:00:00
 SDP3  | 2023-06-01 00:00:00
 SDP4  | 2023-04-22 00:00:00
 SDP5  | 2023-06-28 00:00:00
 SDP6  | 2023-12-25 00:00:00
 SDP7  | 2023-08-17 00:00:00
 SDP8  | 2023-09-26 00:00:00
 SDP9  | 2023-05-05 00:00:00
 SDP10 | 2023-04-21 00:00:00
(10 rows)

db22a003=>
```

## Bagian w: RESTAURANT\_PROMO

### 1. Membuat tabel RESTAURANT\_PROMO

```
db22a003=> CREATE TABLE RESTAURANT_PROMO (
db22a003(> RName VARCHAR(25) NOT NULL,
db22a003(> RBranch VARCHAR(25) NOT NULL,
db22a003(> FoodName VARCHAR(50) NOT NULL,
db22a003(> PId VARCHAR(25) NOT NULL,
db22a003(> RPromo_start timestamp NOT NULL,
db22a003(> RPromo_end timestamp NOT NULL,
db22a003(> PRIMARY KEY (RName, RBranch, PId),
db22a003(> FOREIGN KEY (RName, RBranch, FoodName) REFERENCES FOOD (RName, RBranch, FoodName) ON
UPDATE CASCADE ON DELETE CASCADE,
db22a003(> FOREIGN KEY (PId) REFERENCES PROMO (id) ON UPDATE CASCADE ON DELETE CASCADE
db22a003(> );
CREATE TABLE
```

## 2. Struktur data RESTAURANT\_PROMO

```
db22a003=> \d RESTAURANT_PROMO
      Table "sirest.restaurant_promo"
    Column |          Type           | Collation | Nullable | Default
-----+-----+-----+-----+-----+
  rname  | character varying(25) |           | not null |
rbranch | character varying(25) |           | not null |
foodname | character varying(50) |           | not null |
  pid   | character varying(25) |           | not null |
rpromo_start | timestamp without time zone |           | not null |
rpromo_end | timestamp without time zone |           | not null |
Indexes:
  "restaurant_promo_pkey" PRIMARY KEY, btree (rname, rbranch, pid)
Foreign-key constraints:
  "restaurant_promo_pid_fkey" FOREIGN KEY (pid) REFERENCES promo(id) ON UPDATE CASCADE ON DELETE CASCADE
  "restaurant_promo_rname_fkey" FOREIGN KEY (rname, rbranch, foodname) REFERENCES food(rname, rbranch, foodname) ON UPDATE CASCADE ON DELETE CASCADE
```

## 3. Memasukkan data

```
db22a003=> INSERT INTO RESTAURANT_PROMO VALUES
db22a003->     ('Kaswel','Gale','Taco','MTP10','2022-02-19 00:00:00','2022-03-29
12:00:00'),
db22a003->     ('Golden Star','Krajan','Bacon','MTP9','2020-01-05 00:00:00','202
0-01-07 12:00:00'),
db22a003->     ('Sunda Food','Sutteridge','Milk','MTP2','2021-07-08 00:00:00','2
021-08-08 12:00:00'),
db22a003->     ('Rice-To','Linden Court','Egg','MTP5','2021-07-10 00:00:00','202
1-07-15 12:00:00'),
db22a003->     ('Foresta','Matumadua','Pizza','MTP4','2020-05-17 00:00:00','2020
-05-20 12:00:00'),
db22a003->     ('Burger Queen','Eagle','Fried Rice','MTP6','2022-08-14 00:00:00'
,'2022-08-18 12:00:00'),
db22a003->     ('Rice-To','Linden Court','Pie','MTP8','2022-10-05 00:00:00','202
2-10-08 12:00:00'),
db22a003->     ('Golden Star','Krajan','Steak','MTP3','2021-12-17 00:00:00','202
1-12-25 12:00:00'),
db22a003->     ('Venti''s','Dandelion','SmokedSalmon','MTP7','2020-06-18 00:00:0
0','2020-06-25 12:00:00'),
db22a003->     ('Kaswel','Gale','Sandwich','MTP1','2020-06-26 00:00:00','2020-07
-05 12:00:00');
INSERT 0 10
db22a003=>
```

## 4. Memperlihatkan data

```
db22a003=> SELECT * FROM RESTAURANT_PROMO;
      rname | rbranch | foodname | pid | rpromo_start | rpromo_end
-----+-----+-----+-----+-----+-----+
  Kaswel | Gale   | Taco    | MTP10 | 2022-02-19 00:00:00 | 2022-03-29 12:00:00
Golden Star | Krajan | Bacon   | MTP9  | 2020-01-05 00:00:00 | 2020-01-07 12:00:00
Sunda Food | Sutteridge | Milk   | MTP2  | 2021-07-08 00:00:00 | 2021-08-08 12:00:00
Rice-To | Linden Court | Egg    | MTP5  | 2021-07-10 00:00:00 | 2021-07-15 12:00:00
Foresta | Matumadua | Pizza   | MTP4  | 2020-05-17 00:00:00 | 2020-05-20 12:00:00
Burger Queen | Eagle | Fried Rice | MTP6  | 2022-08-14 00:00:00 | 2022-08-18 12:00:00
Rice-To | Linden Court | Pie    | MTP8  | 2022-10-05 00:00:00 | 2022-10-08 12:00:00
Golden Star | Krajan | Steak   | MTP3  | 2021-12-17 00:00:00 | 2021-12-25 12:00:00
Venti's | Dandelion | SmokedSalmon | MTP7  | 2020-06-18 00:00:00 | 2020-06-25 12:00:00
  Kaswel | Gale   | Sandwich | MTP1  | 2020-06-26 00:00:00 | 2020-07-05 12:00:00
(10 rows)

db22a003=>
```

***Code of Conduct :***

Kami menyatakan bahwa Tugas Kelompok ini kami kerjakan dengan usaha kami sendiri. Kami tidak menyalin jawaban dari sumber manapun. Kami bertanggung jawab menjaga agar jawaban Tugas Kelompok kami tidak disalin oleh peserta kelompok lainnya.

Proporsi pengerjaan Tugas Kelompok adalah sbb:

No	NPM	Nama Anggota	Deskripsi Tugas	Kontribusi (0-5)			
				1	2	3	4
1	2106752180	Alvaro Austin	Membuat struktur data dan tampilan state dari tabel RESTAURANT_OPERATING_HOURS, INGRÉDIENT, RESTAURANT_CATEGORY, FOOD_CATEGORY, FOOD, FOOD_INGREDIENT.		5	5	5
2	2106702150	Dianisa Wulandari	Membuat struktur data dan tampilan state dari tabel TRANSACTION, DELIVERY_FEE_PER_KM, PAYMENT_METHOD, TRANSACTION_STATUS, TRANSACTION_FOOD, TRANSACTION_HISTORY	5		5	5
3	2106632541	Emir Shamsuddin Fadhlurrahman	Membuat struktur data dan tampilan state dari tabel USER_ACC, ADMIN, TRANSACTION_ACTOR, COURIER, CUSTOMER, RESTAURANT	5	5		5
4	2106752363	Fauzan Daffa Raditya	Membuat struktur data dan tampilan state dari tabel PAYMENT_STATUS, PROMO, MIN_TRANSACTION_PROMO, SPECIAL_DAY_PROMO, RESTAURANT_PROMO	5	5	5	