DB Design Statments

postgres@Webonise-Desktop:~$ psql

psql (9.3.13)

Type "help" for help.

postgres=# create database ecommerce\_application;

CREATE DATABASE

postgres=# \l

postgres=# \l

List of databases

Name | Owner | Encoding | Collate | Ctype | Access privileges

-----------------------+----------+----------+---------+-------+-----------------------

ecommerce\_application | postgres | UTF8 | en\_IN | en\_IN |

postgres | postgres | UTF8 | en\_IN | en\_IN |

template0 | postgres | UTF8 | en\_IN | en\_IN | =c/postgres +

| | | | | postgres=CTc/postgres

template1 | postgres | UTF8 | en\_IN | en\_IN | =c/postgres +

| | | | | postgres=CTc/postgres

(4 rows)

postgres=#

postgres=# \c

You are now connected to database "postgres" as user "postgres".

postgres=# \c

\cd \connect \conninfo \copy \copyright

postgres=# \c

ecommerce\_application template0

postgres template1

postgres=# \c ecommerce\_application

You are now connected to database "ecommerce\_application" as user "postgres".

ecommerce\_application=#

ecommerce\_application=# create domain id\_type varchar(10) check (value ~ '^[a-zA-Z0-9]+$' and length(value) >= 8 and length(value) <=10);

CREATE DOMAIN

ecommerce\_application=# create table products(

ecommerce\_application(# id id\_type primary key not null,

ecommerce\_application(# name text not null);

CREATE TABLE

ecommerce\_application=# \d

List of relations

Schema | Name | Type | Owner

--------+----------+-------+----------

public | products | table | postgres

(1 row)

ecommerce\_application=# \d products

Table "public.products"

Column | Type | Modifiers

--------+---------+-----------

id | id\_type | not null

name | text | not null

Indexes:

"products\_pkey" PRIMARY KEY, btree (id)

ecommerce\_application=# create table user\_type(id id\_type primary key not null,

ecommerce\_application(# name text not null);

CREATE TABLE

ecommerce\_application=# \d user\_type

Table "public.user\_type"

Column | Type | Modifiers

--------+---------+-----------

id | id\_type | not null

name | text | not null

Indexes:

"user\_type\_pkey" PRIMARY KEY, btree (id)

ecommerce\_application=# create table discount\_coupons(id id\_type primary key not null,

ecommerce\_application(# type text not null,

ecommerce\_application(# name text not null);

CREATE TABLE

ecommerce\_application=# \d discount\_coupons

Table "public.discount\_coupons"

Column | Type | Modifiers

--------+---------+-----------

id | id\_type | not null

type | text | not null

name | text | not null

Indexes:

"discount\_coupons\_pkey" PRIMARY KEY, btree (id)

ecommerce\_application=# alter table products add constraint my\_unique\_constraint\_products UNIQUE(id);

ALTER TABLE

ecommerce\_application=# alter table discount\_coupons add constraint my\_unique\_constraint\_discount\_coupons UNIQUE(id);

ALTER TABLE

ecommerce\_application=# alter table user\_type add constraint my\_unique\_constraint\_user\_type UNIQUE(id);

ALTER TABLE

ecommerce\_application=# \d

discount\_coupons pg\_toast.

discount\_coupons\_pkey pg\_toast\_temp\_1.

information\_schema. products

my\_unique\_constraint\_discount\_coupons products\_pkey

my\_unique\_constraint\_products public.

my\_unique\_constraint\_user\_type user\_type

pg\_catalog. user\_type\_pkey

pg\_temp\_1.

ecommerce\_application=# create table product\_price\_and\_color(

ecommerce\_application(# id id\_type primary key not null,

ecommerce\_application(# price real not null,

ecommerce\_application(# color text not null,

ecommerce\_application(# product\_id id\_type not null references products(id));

CREATE TABLE

ecommerce\_application=# \d product\_price\_and\_color

Table "public.product\_price\_and\_color"

Column | Type | Modifiers

------------+---------+-----------

id | id\_type | not null

price | real | not null

color | text | not null

product\_id | id\_type | not null

Indexes:

"product\_price\_and\_color\_pkey" PRIMARY KEY, btree (id)

Foreign-key constraints:

"product\_price\_and\_color\_product\_id\_fkey" FOREIGN KEY (product\_id) REFERENCES products(id)

ecommerce\_application=# create table users(

ecommerce\_application(# id id\_type primary key not null unique,

ecommerce\_application(# name text not null,

ecommerce\_application(# email text not null,

ecommerce\_application(# passwd varchar(15) not null check (length(passwd) >=8),

ecommerce\_application(# user\_type\_id id\_type not null references user\_type(id));

CREATE TABLE

ecommerce\_application=# \d users

Table "public.users"

Column | Type | Modifiers

--------------+-----------------------+-----------

id | id\_type | not null

name | text | not null

email | text | not null

passwd | character varying(15) | not null

user\_type\_id | id\_type | not null

Indexes:

"users\_pkey" PRIMARY KEY, btree (id)

Check constraints:

"users\_passwd\_check" CHECK (length(passwd::text) >= 8)

Foreign-key constraints:

"users\_user\_type\_id\_fkey" FOREIGN KEY (user\_type\_id) REFERENCES user\_type(id)

ecommerce\_application=# create table orders(

ecommerce\_application(# id id\_type primary key not null unique,

ecommerce\_application(# total\_cost real not null,

ecommerce\_application(# date timestamp not null,

ecommerce\_application(# user\_id id\_type not null references users(id));

CREATE TABLE

ecommerce\_application=# \d orders

Table "public.orders"

Column | Type | Modifiers

------------+-----------------------------+-----------

id | id\_type | not null

total\_cost | real | not null

date | timestamp without time zone | not null

user\_id | id\_type | not null

Indexes:

"orders\_pkey" PRIMARY KEY, btree (id)

Foreign-key constraints:

"orders\_user\_id\_fkey" FOREIGN KEY (user\_id) REFERENCES users(id)

ecommerce\_application=# create table order\_product\_list(

ecommerce\_application(# id id\_type primary key not null unique,

ecommerce\_application(# product\_id id\_type not null references products(id),

ecommerce\_application(# order\_id id\_type not null references orders(id));

CREATE TABLE

ecommerce\_application=# \d order\_product\_list

Table "public.order\_product\_list"

Column | Type | Modifiers

------------+---------+-----------

id | id\_type | not null

product\_id | id\_type | not null

order\_id | id\_type | not null

Indexes:

"order\_product\_list\_pkey" PRIMARY KEY, btree (id)

Foreign-key constraints:

"order\_product\_list\_order\_id\_fkey" FOREIGN KEY (order\_id) REFERENCES orders(id)

"order\_product\_list\_product\_id\_fkey" FOREIGN KEY (product\_id) REFERENCES products(id)

ecommerce\_application=# create table payment(

ecommerce\_application(# id id\_type primary key not null unique,status text not null,method text not null,date timestamp not null,

ecommerce\_application(# discount\_id id\_type not null references discount\_coupons(id),

ecommerce\_application(# order\_id id\_type not null references orders(id));

CREATE TABLE

ecommerce\_application=# \d payment

Table "public.payment"

Column | Type | Modifiers

-------------+-----------------------------+-----------

id | id\_type | not null

status | text | not null

method | text | not null

date | timestamp without time zone | not null

discount\_id | id\_type | not null

order\_id | id\_type | not null

Indexes:

"payment\_pkey" PRIMARY KEY, btree (id)

Foreign-key constraints:

"payment\_discount\_id\_fkey" FOREIGN KEY (discount\_id) REFERENCES discount\_coupons(id)

"payment\_order\_id\_fkey" FOREIGN KEY (order\_id) REFERENCES orders(id)

ecommerce\_application=# alter table order\_product\_list add color text not null;

ALTER TABLE

ecommerce\_application=# \d order\_product\_list

Table "public.order\_product\_list"

Column | Type | Modifiers

------------+---------+-----------

id | id\_type | not null

product\_id | id\_type | not null

order\_id | id\_type | not null

color | text | not null

Indexes:

"order\_product\_list\_pkey" PRIMARY KEY, btree (id)

Foreign-key constraints:

"order\_product\_list\_order\_id\_fkey" FOREIGN KEY (order\_id) REFERENCES orders(id)

"order\_product\_list\_product\_id\_fkey" FOREIGN KEY (product\_id) REFERENCES products(id)