Stores

Address	varchar(20)
GM_link	text
Name	varchar(30)

Found_at

price: real

Recipe

fid	varchar(6)
instructions	text
tools	ARRAY varchar(20)
calories	real
Ingredients	ARRAY varchar(20)

contains

Ingredients

name	varchar(20)
calorie value	real
nutrition facts	text
protein	text
avg_price	real

Reviews

rid	varchar(6)
rating	real
easy	real
comment	text

Reviewed_At

Date: date

Users

user_name	varchar(20)
first	varchar(20)
last	varchar(20)
Age	INTEGER
password	varchar(20)
email	varchar(25)

Allergic_To

CREATE TABLE Users(

user_name varchar(25),
first   varchar(20),
last   varchar(20),
age   INTEGER,
password   varchar(20),
email   varchar(25)

UNIQUE(email),
PRIMARY KEY(user_name)
);

CREATE TABLE Reviews(

rid   varchar(6),
rating   real,
easy   real,
comment   text,

PRIMARY KEY(rid),
CHECK(rating >= 0 AND rating <= 5),
CHECK(easy <= 0 AND easy => 10)
);

CREATE TABLE Recipes(

fid   varchar(6),
instructions   text,
tools   ARRAY varchar(20),
calories   real,
ingredients   ARRAY varchar(20),

recom_by_doc   real,
PRIMARY KEY(fid),
CHECK(calories >= 0),
CHECK(recom_by_doc <= 0 AND recom_by_doc =>
10)
);

CREATE TABLE Ingredients(

name   varchar(20),
calories   real,
nutrition_facts   text,
protein   real,
avg_price   real,

recom_by_doc   real,
PRIMARY KEY(name),
CHECK(calories >= 0),
CHECK(avg_price >= 0),
CHECK(protein >= 0)
);

CREATE TABLE Stores(

address   varchar(50)
GM_link   text,
name   varchar(30)

PRIMARY KEY(address),
);

CREATE TABLE Reviewed_At(

fid   varchar(6),
rid   varchar(6),
user_name   varchar(25),
date   DATE

PRIMARY KEY(fid, user_name),
FOREIGN_KEY(fid) REFERENCES Recipes,
FOREIGN_KEY(user_name) REFERENCES Users,
FOREIGN_KEY(rid) REFERENCES Reviews,
CHECK(date <= CURRENT_DATE)
);

CREATE TABLE Allergic_To(

allergy_name   varchar(20),
user_name   varchar(25),

PRIMARY KEY(name, user_name),
FOREIGN_KEY(allergy_name) REFERENCES Ingredients,
FOREIGN_KEY(user_name) REFERENCES Users
);

CREATE TABLE Contains(
name   varchar(20),
fid   varchar(6),

PRIMARY KEY(name, fid),
FOREIGN_KEY(name) REFERENCES Ingredients,
FOREIGN_KEY(fid) REFERENCES Recipes
);

CREATE TABLE Found_At(

address   varchar(50),
ing_name   varchar(20),
price   real

PRIMARY KEY(name, address),
FOREIGN_KEY(ing_name) REFERENCES Ingredients,
FOREIGN_KEY(address) REFERENCES Stores,
CHECK(price >= 0)
);