#Reserved Words: https://dev.mysql.com/doc/refman/5.5/en/keywords.html

create database grocery\_website;

create table grocery\_website.city

(cityName varchar(20) primary key,

state varchar(20));

create table grocery\_website.street

(zip\_code varchar(5) primary key,

streetName varchar(40));

create table grocery\_website.address

(addressID INT not null auto\_increment primary key,

cityName varchar(20),

zip\_code varchar(5),

apartment varchar(20),

foreign key(cityName)

references grocery\_website.city(cityName),

foreign key(zip\_code)

references grocery\_website.street(zip\_code));

create table grocery\_website.users

(userName varchar(20),

userType enum('bcustomer','hcustomer','salesperson','store\_manager','region\_manager', 'direct\_salesperson','admin'),

pass varchar(20),

primary key(userName));

create table grocery\_website.customer

(customerName varchar(20),

customerType enum('bcustomer','hcustomer'),

pass varchar(20),

primary key(customerName));

create table grocery\_website.bcustomer

(b\_customerUsername varchar(20),

first\_name char(10),

last\_name char(10),

business\_category char(20),

company\_GAI real,

addressID INT,

pass varchar(20),

email varchar(20),

tel varchar(10),

primary key(b\_customerUsername),

foreign key(addressID)

references grocery\_website.address(addressID));

# check the company\_GAI>0 in PHP

create table grocery\_website.hcustomer

(h\_customerUsername varchar(20),

first\_name char(10),

last\_name char(10),

gender enum('male', 'female'),

birth\_date date,

income real,

marriage\_status enum('single', 'married', 'divorced', 'widowed'),

addressID int,

pass varchar(20),

email varchar(20),

tel varchar(10),

primary key(h\_customerUsername),

foreign key(addressID)

references grocery\_website.address(addressID));

create table grocery\_website.salesperson

(salespersonName varchar(20),

first\_name char(10),

last\_name char(10),

gender enum('male', 'female'),

email char(20),

birth\_date date,

job\_title enum('store\_manager', 'region\_manager', 'direct\_salesperson'),

salary real,

addressID int,

pass varchar(20),

primary key(salespersonName),

foreign key(addressID)

references grocery\_website.address(addressID));

# Triggers on b\_customer, h\_customer and salesperson

# Oh! It works!!!

create trigger grocery\_website.bcus\_cus\_trigger

after insert on grocery\_website.bcustomer

for each row

insert into grocery\_website.customer VALUES(NEW.b\_customerUsername,'bcustomer',NEW.pass);

create trigger grocery\_website.hcus\_cus\_trigger

after insert on grocery\_website.hcustomer

for each row

insert into grocery\_website.customer VALUES(NEW.h\_customerUsername,'hcustomer',NEW.pass);

create trigger grocery\_website.cus\_usr\_trigger

after insert on grocery\_website.customer

for each row

insert into grocery\_website.users VALUES(NEW.customerName,NEW.customerType,NEW.pass);

create trigger grocery\_website.sales\_trigger

after insert on grocery\_website.salesperson

for each row

insert into grocery\_website.users VALUES(NEW.salespersonName,NEW.job\_title,NEW.pass);

# finish trigger

create table grocery\_website.region

(regionID INT not null auto\_increment,

regionManagerName varchar(20),

regionName varchar(20),

primary key(regionID),

foreign key(regionManagerName)

references grocery\_website.salesperson(salespersonName));

## use trigger to do the check for table region  FAILED :(

#create trigger grocery\_website.region\_manager\_check

#before insert on grocery\_website.region

#for each row

#begin

#if (select job\_title from grocery\_website.salesperson sp where #sp.salespersonID=salespersonID) ='region\_manager' then

#insert into grocery\_website.region select \* from grocery\_website.region;

#end;

#check('region\_manager'=

#                 (select job\_title

#                  from grocery\_website.salesperson sp

#                  where sp.salespersonID=salespersonID)));

create table grocery\_website.store

(storeID INT not null auto\_increment,

storeName varchar(20),

addressID INT,

regionID INT,

storeManagerName varchar(20),

primary key(storeID),

foreign key(storeManagerName)

references grocery\_website.salesperson(salespersonName),

foreign key(regionID)

references grocery\_website.region(regionID));

INSERT INTO grocery\_website.store VALUES(null,'a',1, '111', 'Jack');

INSERT INTO grocery\_website.store VALUES(null,'a',2, '112', 'Jackson');

INSERT INTO grocery\_website.store VALUES(null,'b',3, '113', 'Johnson');

INSERT INTO grocery\_website.store VALUES(null,'c',4, '114', 'Bill');

INSERT INTO grocery\_website.store VALUES(null,'d',5, '115', 'Mary');

INSERT INTO grocery\_website.store VALUES(null,'e',6, '116', 'Lisa');

INSERT INTO grocery\_website.store VALUES(null,'f',7, '117', 'James');

INSERT INTO grocery\_website.store VALUES(null,'g',8 , '118', 'Jane');

INSERT INTO grocery\_website.store VALUES(null,'h',9, '119', 'Laura');

INSERT INTO grocery\_website.store VALUES(null,'i',10, '121', 'Sarah');

INSERT INTO grocery\_website.store VALUES(null,'g',11, '131', 'Ada');

# this check does not work

#check('store\_manager'=

#                 (select job\_title

#                  from salesperson

#                  where salesperson.salespersonID=store. salespersonID)));

# ??? Might be better to code these checks in PHP

#create trigger checkstoremanager before insert on

#for each row begin

#if salespersonID.job\_title = 'store\_manager'

#then insert into store

#end if

#end

create table grocery\_website.category

(categoryID INT not null auto\_increment,

gwcname char(20),

primary key(categoryID));

create table grocery\_website.brand

(brandID INT not null auto\_increment,

gwbname char(20),

primary key(brandID));

create table grocery\_website.store\_direct\_sale

(salespersonName varchar(20),

storeID INT,

primary key(salespersonName, storeID),

foreign key(storeID)

references grocery\_website.store(storeID));

## do this check in PHP

#check('direct\_salesperson'=

#                 (select job\_title

#                  from store

#                  where store\_direct\_sale.storeID = store.storeID)))

create table grocery\_website.transaction

(transactionID INT not null auto\_increment,

date date,

customerName varchar(20),

in\_process Boolean,

primary key(transactionID),

foreign key(customerName)

references grocery\_website.customer(customerName));

create table grocery\_website.product

(productID INT not null auto\_increment,

gwpname char(20),

cost real,

categoryID INT,

brandID INT,

description CHAR(255),

primary key(productID),

foreign key(categoryID)

references grocery\_website.category(categoryID),

foreign key(brandID)

references grocery\_website.brand(brandID));

create table grocery\_website.storage

(productID INT,

storeID INT,

amount INT,

primary key(productID, storeID),

foreign key(productID)

references grocery\_website.product(productID),

foreign key(storeID)

references grocery\_website.store(storeID));

INSERT INTO grocery\_website.storage VALUES (1,1,100);

INSERT INTO grocery\_website.storage VALUES (2,1,50);

INSERT INTO grocery\_website.storage VALUES (3,1,10);

INSERT INTO grocery\_website.storage VALUES (4,1,200);

INSERT INTO grocery\_website.storage VALUES (5,1,300);

INSERT INTO grocery\_website.storage VALUES (1,2,200);

INSERT INTO grocery\_website.storage VALUES (2,2,600);

INSERT INTO grocery\_website.storage VALUES (4,2,20);

INSERT INTO grocery\_website.storage VALUES (3,2,30);

INSERT INTO grocery\_website.storage VALUES (6,2,40);

INSERT INTO grocery\_website.storage VALUES (5,2,15);

INSERT INTO grocery\_website.storage VALUES (4,3,130);

INSERT INTO grocery\_website.storage VALUES (5,3,150);

INSERT INTO grocery\_website.storage VALUES (1,3,160);

INSERT INTO grocery\_website.storage VALUES (2,3,120);

INSERT INTO grocery\_website.storage VALUES (3,3,140);

INSERT INTO grocery\_website.storage VALUES (1,4,120);

INSERT INTO grocery\_website.storage VALUES (2,4,110);

INSERT INTO grocery\_website.storage VALUES (3,4,10);

INSERT INTO grocery\_website.storage VALUES (4,4,50);

INSERT INTO grocery\_website.storage VALUES (5,4,60);

INSERT INTO grocery\_website.storage VALUES (1,5,70);

INSERT INTO grocery\_website.storage VALUES (2,5,190);

INSERT INTO grocery\_website.storage VALUES (3,5,15);

INSERT INTO grocery\_website.storage VALUES (5,6,150);

INSERT INTO grocery\_website.storage VALUES (1,7,160);

INSERT INTO grocery\_website.storage VALUES (2,8,120);

INSERT INTO grocery\_website.storage VALUES (3,9,140);

create table grocery\_website.transaction\_instance

(transactionID INT,

productionID INT,

ranking enum('1','2','3','4','5'),

primary key(transactionID),

foreign key(transactionID)

references grocery\_website.transaction(transactionID),

foreign key(productionID)

references grocery\_website.product(productID));

create table grocery\_website.promotion

(promotionID INT not null auto\_increment,

start\_date date,

end\_date date,

discount real,

productID int,

primary key(promotionID),

foreign key(productID)

references grocery\_website.product(productID));

## do the check in PHP

#check(discount<100 and discount>0)

INSERT INTO grocery\_website.storage VALUES(

INSERT INTO grocery\_website.users VALUES('admin','admin','admin');

### insert sample data

INSERT INTO grocery\_website.city VALUES ('Pittsburgh','PA');

INSERT INTO grocery\_website.city VALUES ('NewYork City','NY');

INSERT INTO grocery\_website.city VALUES ('San Diego','CA');

INSERT INTO grocery\_website.street VALUES ('15213','Center ST');

INSERT INTO grocery\_website.street VALUES ('16303','Fifth ST');

INSERT INTO grocery\_website.street VALUES ('17001','Sixth ST');

INSERT INTO grocery\_website.street VALUES ('15333','Sixth ST');

INSERT INTO grocery\_website.address VALUES (null,'Pittsburgh','15213','Bellfied');

INSERT INTO grocery\_website.address VALUES (null,'NewYork City','16303','White Apt');

INSERT INTO grocery\_website.address VALUES (null,'San Diego','15333','Green Apt');

INSERT INTO grocery\_website.address VALUES (null,'NewYork City','17001','Blue Apt');

INSERT INTO grocery\_website.hcustomer VALUES('zz','zhou','zhu','female','1990-12-02',1000,'single',1,'1','zz@gmail.com','1231231233');

INSERT INTO grocery\_website.hcustomer VALUES('gxs','xiaoshi','guo','female','1995-10-31',8000,'single',2,'1','gxs@gmail.com','3213213211');

INSERT INTO grocery\_website.bcustomer VALUES('erin','erin','prince','Bank',100000,2,'1','ep@gmail.com','3213213211');

INSERT INTO grocery\_website.hcustomer VALUES(['dan','daniel','rad','male','1989-07-23',5000,'married',3,'1','gxs@gmail.com](mailto:'dan','daniel','rad','male','1989-07-23',5000,'married',3,'1','gxs@gmail.com)','3213213211');

INSERT INTO grocery\_website.salesperson VALUES('emma','emma','waston','female','ew@gmail.com','1990-05-18','region\_manager',5000,3,'emma');

INSERT INTO grocery\_website.salesperson VALUES('xiaoshi','xiao','guo','female','xs@gmail.com','1990-01-01','store\_manager',10000,1,'1');

INSERT INTO grocery\_website.region VALUES(null,'emma','New York Region');

INSERT INTO grocery\_website.store VALUES(null,'Happy New Store',2,1,'xiaoshi');

INSERT INTO grocery\_website.category VALUES(null,'Baby Products');

INSERT INTO grocery\_website.category VALUES(null,'Bathroom and Shower');

INSERT INTO grocery\_website.category VALUES(null,'Beverages');

INSERT INTO grocery\_website.category VALUES(null,'Bread and Desserts');

INSERT INTO grocery\_website.category VALUES(null,'Canned Goods');

INSERT INTO grocery\_website.category VALUES(null,'Candy');

INSERT INTO grocery\_website.category VALUES(null,'Dairy');

INSERT INTO grocery\_website.brand VALUES(null,'Gerber');

INSERT INTO grocery\_website.brand VALUES(null,'Johnson\'s');

INSERT INTO grocery\_website.brand VALUES(null,'Equate');

INSERT INTO grocery\_website.brand VALUES(null,'Trojan');

INSERT INTO grocery\_website.brand VALUES(null,'Garnier Fructis');

INSERT INTO grocery\_website.brand VALUES(null,'Suave');

INSERT INTO grocery\_website.brand VALUES(null,'Starbucks');

INSERT INTO grocery\_website.brand VALUES(null,'Cone');

INSERT INTO grocery\_website.brand VALUES(null,'Jello');

INSERT INTO grocery\_website.brand VALUES(null,'Campbell\'s');

INSERT INTO grocery\_website.product VALUES(null,'Gerber 2nd Foods Squash Corn & Chicken',2.07,1,1,'healthy');

INSERT INTO grocery\_website.product VALUES(null,'Portable mushroom 32 oz',4.98,1,1,'Our selection of juice gives you an exciting spectrum of savory choices that are great');

INSERT INTO grocery\_website.product VALUES(null,'Banana Juice',2.07,2,1,'Our selection of juice gives you an exciting spectrum of savory choices that are great');

INSERT INTO grocery\_website.product VALUES(null,'Powder, 12 oz',6.04,1,2,'no harm');

INSERT INTO grocery\_website.product VALUES(null,'Pittsburgh Squash Corn & Chicken',2.07,1,1,'healthy');

INSERT INTO grocery\_website.product VALUES(null,'2012 Wine',4.98,1,1,'Our selection of juice gives you an exciting spectrum of savory choices that are great');

INSERT INTO grocery\_website.product VALUES(null,'milk shake',2.07,2,1,'fresh');

INSERT INTO grocery\_website.product VALUES(null,'sugar, 22 oz',6.04,1,2,'no harm');

INSERT INTO grocery\_website.product VALUES(null,'Squash',2.07,1,1,'Whether you’re grilling, searing or broiling, we are sure to deliver unparalleled taste to your table');

INSERT INTO grocery\_website.product VALUES(null,'Green Grape Juice 32 oz',4.98,1,1,'fresh');

INSERT INTO grocery\_website.product VALUES(null,'Red Grape Juice',2.07,1,1,'Our selection of juice gives you an exciting spectrum of savory choices that are great');

INSERT INTO grocery\_website.product VALUES(null,'chocolate, 12 bars',6.04,1,2,'yummy');

INSERT INTO grocery\_website.product VALUES(null,'White Grape Juice 12 oz',4.98,1,1,'fresh');

INSERT INTO grocery\_website.product VALUES(null,'yogurt porfait',1.07,2,1,'Our selection of juice gives you an exciting spectrum of savory choices that are great');

INSERT INTO grocery\_website.product VALUES(null,'rose',6.04,1,2,'no harm');

INSERT INTO grocery\_website.product VALUES(null,'chicken, 12 lbs',2.07,1,1,'Whether you’re grilling, searing or broiling, we are sure to deliver unparalleled taste to your table');

INSERT INTO grocery\_website.product VALUES(null,'vegetable sushi 22 oz',5,1,1,'fresh');

INSERT INTO grocery\_website.product VALUES(null,'meat',2.07,6,1,'Whether you’re grilling, searing or broiling, we are sure to deliver unparalleled taste to your table');

INSERT INTO grocery\_website.product VALUES(null,'turkey, 12 oz',6.04,1,2,'Whether you’re grilling, searing or broiling, we are sure to deliver unparalleled taste to your table');

INSERT INTO grocery\_website.product VALUES(null,'Maximize',3.07,1,1,'healthy');

INSERT INTO grocery\_website.product VALUES(null,'strawberry  32 oz',5.98,1,1,'we operated business dedicated to preparing the highest quality premium fruit');

INSERT INTO grocery\_website.product VALUES(null,'shrimp',2.07,2,1,'Whether you’re grilling, searing or broiling, we are sure to deliver unparalleled taste to your table');

INSERT INTO grocery\_website.product VALUES(null,'Hershey chocolate, 22 oz',6.04,1,2,'yummy');

INSERT INTO grocery\_website.product VALUES(null,'green apple',2.07,2,3,'fresh');

INSERT INTO grocery\_website.product VALUES(null,'colorful pepper, 12 oz',6.04,5,2,'no harm');

INSERT INTO grocery\_website.product VALUES(null,'Corn',2.07,6,1,'healthy');

INSERT INTO grocery\_website.product VALUES(null,'White Grape',4.98,1,1,'fresh');

INSERT INTO grocery\_website.product VALUES(null,'Banana Juice',2.07,2,4,'Our selection of juice gives you an exciting spectrum of savory choices that are great');

INSERT INTO grocery\_website.product VALUES(null,'carrot, 3 lb',6.04,3,2,'we operated business dedicated to preparing the highest quality premium vegetable');

INSERT INTO grocery\_website.product VALUES(null,'cabbage',2.07,5,1,'we operated business dedicated to preparing the highest quality premium vegetable');

INSERT INTO grocery\_website.product VALUES(null,'White Grape Juice 32 oz',4.98,1,1,'fresh');

INSERT INTO grocery\_website.product VALUES(null,'spinach',2.07,2,1,'we operated business dedicated to preparing the highest quality premium vegetable');

INSERT INTO grocery\_website.product VALUES(null,'onion, 5 lb',6.04,9,2,'you could grill and broil, we are sure to deliver unparalleled taste to your desk');