CREATE TABLE **USER** (

userid INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

firstname VARCHAR(255) NOT NULL,

lastname VARCHAR(255) NOT NULL,

email VARCHAR(50) NOT NULL,

password VARCHAR(25) NOT NULL,

contact VARCHAR(10)

);

ALTER TABLE **USER**

add unique (email);

CREATE TABLE **USERADDR**(

addressid INT(6) UNSIGNED AUTO\_INCREMENT NOT NULL PRIMARY KEY,

addr\_line1 VARCHAR(255) NOT NULL,

addr\_line2 VARCHAR(255) NOT NULL,

city VARCHAR(50) NOT NULL,

province VARCHAR(50) NOT NULL,

postal\_code VARCHAR(10) NOT NULL,

userid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (userid) REFERENCES USER(userid)

);

CREATE TABLE **USERCARD**(

cardid INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

cardno INT(16) NOT NULL,

expiry\_dt DATE NOT NULL,

cvv INT(3) NOT NULL,

cardtype VARCHAR(255) NOT NULL,

userid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (userid) REFERENCES USER(userid)

);

CREATE TABLE **CATEGORY**(

categoryid INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

category\_name VARCHAR(255) NOT NULL

);

CREATE TABLE **PRODUCT**(

prodid INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

prod\_name VARCHAR(255) NOT NULL,

categoryid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (categoryid) REFERENCES CATEGORY(categoryid)

);

ALTER TABLE **PRODUCT**

ADD brand\_name VARCHAR(255);

CREATE TABLE **STORE**(

storeid INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

store\_name VARCHAR(255) NOT NULL

);

ALTER TABLE **STORE**

ADD store\_lat DECIMAL(9,6),

Store\_long DECIMAL(9,6);

CREATE TABLE **PRODUCT\_BY\_STORE**(

prodid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (prodid) REFERENCES PRODUCT(prodid),

storeid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (storeid) REFERENCES STORE(storeid),

price DECIMAL(13,2) NOT NULL,

quantity INT(6) NOT NULL

);

ALTER TABLE **PRODUCT\_BY\_STORE**

ADD store\_type VARCHAR(255);

CREATE TABLE **CART**(

cartid INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

userid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (userid) REFERENCES USER(userid),

prodid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (prodid) REFERENCES PRODUCT(prodid),

storeid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (storeid) REFERENCES STORE(storeid),

price DECIMAL(13,2) NOT NULL,

quantity INT(6) NOT NULL

);

CREATE TABLE **ORDERS**(

orderid INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

userid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (userid) REFERENCES USER(userid),

addressid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (addressid) REFERENCES USERADDR(addressid),

cartid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (cartid) REFERENCES CART(cartid),

orderprice DECIMAL(13,2) NOT NULL

);

ALTER TABLE **ORDERS**

ADD order\_status VARCHAR(255),

Order\_date TIMESTAMP;

ALTER TABLE **ORDERS**

ADD column cardid int(6);

ALTER TABLE **ORDERS**

MODIFY cardid INT(6) unsigned;

ALTER TABLE **ORDERS**

MODIFY cardid INT(6) unsigned;

ALTER TABLE **ORDERS**

ADD FOREIGN KEY (cardid) REFERENCES USERCARD(cardid);

CREATE TABLE **PRODUCT\_BY\_ORDER**(

orderid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (orderid) REFERENCES ORDERS(orderid),

prodid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (prodid) REFERENCES PRODUCT(prodid),

storeid INT(6) UNSIGNED NOT NULL,

FOREIGN KEY (storeid) REFERENCES STORE(storeid),

price DECIMAL(13,2) NOT NULL,

quantity INT(6) NOT NULL

);