CREATE TABLES

```
CREATE TABLE ONLINE_SHOPPING_SYSTEM
(Name VARCHAR(30) NOT NULL,
Url_Address VARCHAR(30) NOT NULL,
PRIMARY KEY (Name));

CREATE TABLE CUSTOMER
( Customer_id VARCHAR(30) NOT NULL,
Username VARCHAR(30) NOT NULL,
Address VARCHAR(30),
Password VARCHAR(30) NOT NULL,
Email_id VARCHAR(30) NOT NULL,
C_name VARCHAR(30),
PRIMARY KEY (Customer_id));

CREATE TABLE CART
(Cart_id VARCHAR(30) NOT NULL,
Total_items INT NOT NULL,
Customer_id VARCHAR(30) NOT NULL,
PRIMARY KEY(Cart_id),
FOREIGN KEY(Customer_id ) REFERENCES CUSTOMER(Customer_id ));

CREATE TABLE PAYMENT
(Payment_id VARCHAR(30) NOT NULL,
Amount FLOAT NOT NULL,
Payment_Type VARCHAR(30) NOT NULL,
Cart_id VARCHAR(30) NOT NULL,
PRIMARY KEY (Payment_id),
FOREIGN KEY (Cart_id) REFERENCES CART(Cart_id));

CREATE TABLE CATEGORY(
Category_id VARCHAR(30) NOT NULL,
Category_name VARCHAR(30) NOT NULL,
PRIMARY KEY (Category_id));

CREATE TABLE BRANDS(
Brand_id VARCHAR(30) NOT NULL,
Brand_name VARCHAR(30) NOT NULL,
Category_id VARCHAR(30) NOT NULL,
PRIMARY KEY (Brand_id),
FOREIGN KEY (Category_id) REFERENCES CATEGORY(Category_id));

CREATE TABLE PRODUCT(
Product_id VARCHAR(30) NOT NULL,
Product_model VARCHAR(30) NOT NULL,
Product_name VARCHAR(30) NOT NULL,
Brand_id VARCHAR(30) NOT NULL,
Product_price FLOAT NOT NULL,
PRIMARY KEY (Product_id),
FOREIGN KEY (Brand_id) REFERENCES BRANDS(Brand_id) );
```

```
CREATE TABLE CART_ITEM(
Cart_id VARCHAR(30) NOT NULL,
Product_id VARCHAR(30) NOT NULL,
Cart_item_id VARCHAR(30) NOT NULL,
Quantity INT NOT NULL,
Qty_total_cost FLOAT NOT NULL,
PRIMARY KEY (Cart_id, Product_id),
FOREIGN KEY (Cart_id) REFERENCES CART (Cart_id),
FOREIGN KEY (Product_id) REFERENCES PRODUCT(Product_id));
```

INSERT COMMANDS
```
INSERT INTO          ONLINE_SHOPPING_SYSTEM (Name, Url_address)
VALUES               ('Amazon', 'www.amazon.com');


INSERT INTO CUSTOMER(Customer_id, Username, Address, Password, Email_id, C_name)
VALUES               ('C1', 'yash123', '1 mlk blvd',  'abcdef', 'abc@gmail.com', 'Yash Shah');
INSERT INTO CUSTOMER(Customer_id, Username, Address, Password, Email_id, C_name)
VALUES           ('C2', 'arban456', '2 jfk blvd',  'Nkay00', 'def@gmail.com',  'Arban Haxhiu');
INSERT INTO CUSTOMER(Customer_id, Username, Address, Password, Email_id, C_name)
VALUES        ('C3', 'rishi900', '10 irving st',  'Purr45', 'pur@gmail.com',  'Rishi Saku');
INSERT INTO CUSTOMER(Customer_id, Username, Address, Password, Email_id, C_name)
VALUES           ('C4', 'justinnn', '4 newark ave',  'whyWe', 'just99@gmail.com',  'Justin Lam');
INSERT INTO CUSTOMER(Customer_id, Username, Address, Password, Email_id, C_name)
VALUES       ('C5', 'dan66', '55 broad blvd',  'byebye', 'dan205@gmail.com',  'Dan Shaw');
INSERT INTO CUSTOMER(Customer_id, Username, Address, Password, Email_id, C_name)
VALUES       ('C6', 'brooly', '265 Park st',  'brosforlife', 'brobro@gmail.com',  'Broly Brooger');


INSERT INTO          CART(Cart_id,Total_Items, Customer_id)
VALUES               ('11111',1, 'C1');
INSERT INTO          CART(Cart_id,Total_Items, Customer_id)
VALUES               ('22222',2, 'C2');
INSERT INTO          CART(Cart_id,Total_Items, Customer_id)
VALUES               ('33333',3, 'C3');
INSERT INTO          CART(Cart_id,Total_Items, Customer_id)
VALUES               ('44444',4, 'C4');
INSERT INTO          CART(Cart_id,Total_Items, Customer_id)
VALUES               ('66666',6, 'C5');
INSERT INTO          CART(Cart_id,Total_Items, Customer_id)
VALUES               ('77777',7, 'C5');


INSERT INTO    PAYMENT(Payment_id, Amount, Payment_Type, Cart_id)
VALUES         ('111',300,'creditcard','11111');
INSERT INTO    PAYMENT(Payment_id, Amount, Payment_Type, Cart_id)
VALUES               ('222',200,'debitcard','22222');
INSERT INTO    PAYMENT(Payment_id, Amount, Payment_Type, Cart_id)
VALUES               ('333',300,'promocode','33333');
```

```sql
INSERT INTO    PAYMENT(Payment_id, Amount, Payment_Type, Cart_id)
VALUES              ('444',400,'paypal', '44444');
INSERT INTO    PAYMENT(Payment_id, Amount, Payment_Type, Cart_id)
VALUES              ('666',600,'applepay', '66666');


INSERT INTO    CATEGORY(Category_id, Category_name)
VALUES              ('aa1', 'Clothes');
INSERT INTO    CATEGORY(Category_id, Category_name)
VALUES              ('ab2', 'Technology');
INSERT INTO    CATEGORY(Category_id, Category_name)
VALUES              ('ac3', 'Games');
INSERT INTO    CATEGORY(Category_id, Category_name)
VALUES              ('ad4', 'Cooking');
INSERT INTO    CATEGORY(Category_id, Category_name)
VALUES              ('ae5', 'Books');
INSERT INTO    CATEGORY(Category_id, Category_name)
VALUES              ('af6', 'Furniture');


INSERT INTO    BRANDS(Brand_id, Brand_name, Category_id)
VALUES              ('5555555', 'Gucci', 'aa1');
INSERT INTO    BRANDS(Brand_id, Brand_name, Category_id)
VALUES              ('6666666', 'Louis Vuitton', 'ab2');
INSERT INTO    BRANDS(Brand_id, Brand_name, Category_id)
VALUES              ('7777777', 'Nike', 'ac3');
INSERT INTO    BRANDS(Brand_id, Brand_name, Category_id)
VALUES              ('8888888', 'Adidas', 'ad4');
INSERT INTO    BRANDS(Brand_id, Brand_name, Category_id)
VALUES              ('9999999', 'Calvin Klein', 'ae5');
INSERT INTO    BRANDS(Brand_id, Brand_name, Category_id)
VALUES              ('4444444', 'Givenchy', 'aa1');


INSERT INTO    PRODUCT(Product_id, Product_model, Product_name, Product_price,
Brand_id)
VALUES              ('12A', 'Slim', 'Pants',20, '5555555');
INSERT INTO    PRODUCT(Product_id, Product_model, Product_name, Product_price,
Brand_id)
VALUES              ('13B', 'Large', 'Tshirt',20, '6666666');
INSERT INTO    PRODUCT(Product_id, Product_model, Product_name, Product_price,
Brand_id)
VALUES              ('14C', 'One', 'Cap',8, '7777777');
INSERT INTO    PRODUCT(Product_id, Product_model, Product_name, Product_price,
Brand_id)
VALUES              ('15D', 'Small', 'Hoodie',24, '8888888');
INSERT INTO    PRODUCT(Product_id, Product_model, Product_name, Product_price,
Brand_id)
VALUES              ('16E', 'Medium', 'Pants',18, '9999999');
```

```sql
INSERT INTO          PRODUCT(Product_id, Product_model, Product_name, Product_price,
Brand_id)
VALUES               ('16.1E', 'Large', 'LongTee',22, '9999999');
INSERT INTO          PRODUCT(Product_id, Product_model, Product_name, Product_price,
Brand_id)
VALUES               ('16.2E', 'Small', 'Pants',16, '9999999');
INSERT INTO          PRODUCT(Product_id, Product_model, Product_name, Product_price,
Brand_id)
VALUES               ('16.3E', 'ExtraLarge', 'Gloves',12, '9999999');


INSERT INTO          CART_ITEM(Cart_id, Product_id, Cart_item_id, Quantity, Qty_total_cost )
VALUES               ('11111', '12A', 'A1B1',2, 300);
INSERT INTO          CART_ITEM(Cart_id, Product_id, Cart_item_id, Quantity, Qty_total_cost )
VALUES               ('22222', '13B','C1D1',1,100 );
INSERT INTO          CART_ITEM(Cart_id, Product_id, Cart_item_id, Quantity, Qty_total_cost )
VALUES               ('33333', '14C','E1F1',3, 300);
INSERT INTO          CART_ITEM(Cart_id, Product_id, Cart_item_id, Quantity, Qty_total_cost )
VALUES               ('44444', '15D','G1H1',2, 400);
INSERT INTO          CART_ITEM(Cart_id, Product_id, Cart_item_id, Quantity, Qty_total_cost )
VALUES               ('66666', '16E','K1J1',4, 1000);
INSERT INTO          CART_ITEM(Cart_id, Product_id, Cart_item_id, Quantity, Qty_total_cost )
VALUES               ('66666', '16.1E','K1J1',2, 650);
INSERT INTO          CART_ITEM(Cart_id, Product_id, Cart_item_id, Quantity, Qty_total_cost )
VALUES               ('66666', '16.2E','K1J1',1, 850);
INSERT INTO          CART_ITEM(Cart_id, Product_id, Cart_item_id, Quantity, Qty_total_cost )
VALUES               ('66666', '16.3E','K1J1',3, 200);
```

SELECT * STATEMENTS

```sql
Select          *
FROM            ONLINE_SHOPPING_SYSTEM;

Select          *
FROM            CUSTOMER;

Select          *
FROM            PAYMENT;

Select          *
FROM            CART;

Select          *
FROM            CATEGORY;

Select          *
FROM            BRANDS;

Select          *
FROM            PRODUCT;
```

```
Select          *
FROM            CART_ITEM;
```

DELETE AND UPDATE STATEMENTS
```
UPDATE          ONLINE_SHOPPING_SYSTEM
SET             Name= 'Best Buy', Url_address='www.bestbuy.com'
WHERE           Name='Amazon';

DELETE FROM     ONLINE_SHOPPING_SYSTEM;


DELETE FROM     CUSTOMER
WHERE           Customer_id='C6';

UPDATE          CUSTOMER
SET             Username= 'arban555', Address='23 brave st', Password='kaykay451',
Email_id='arby@gmail.com'
WHERE           Customer_id='C2';


DELETE FROM     PAYMENT
WHERE           Payment_id='111';

UPDATE          PAYMENT
SET             Amount=451, Payment_Type='creditcard'
WHERE           Payment_id='222';


DELETE FROM     CART
WHERE           Cart_id='77777';

UPDATE          CART
SET             Total_Items=4
WHERE           Cart_id='22222';


DELETE FROM     CATEGORY
WHERE           Category_id='af6';

UPDATE          CATEGORY
SET             Category_name='Technology'
WHERE           Category_id='ac3';


DELETE FROM     BRANDS
WHERE           Brand_id='4444444';

UPDATE          BRANDS
SET             Brand_name='Holister', Category_id= 'aa1'
```

```
WHERE              Brand_id='6666666';


DELETE FROM        PRODUCT
WHERE              Product_id='16.3E';

UPDATE             PRODUCT
SET                Product_name='NoBrimCap', Brand_id= '7777777'
WHERE              Product_id='14C';


DELETE FROM        CART_ITEM
WHERE              Cart_id='11111';

UPDATE             CART_ITEM
SET                Cart_item_id='Y1Z1', Quantity= 9, Qty_total_cost =700
WHERE              Cart_id='22222' AND Product_id='13B';
```

QUERIES
```
SELECT COUNT(Product_id), Brand_id
FROM PRODUCT
GROUP BY Brand_id;

SELECT      COUNT(Product_id), Brand_id
FROM        PRODUCT
GROUP BY    Brand_id
HAVING      COUNT(Product_id)>2;

SELECT      Cart_item_id, Qty_total_cost, Cart_id
FROM        CART_ITEM
WHERE       Qty_total_cost < ALL
                    (SELECT Qty_total_cost
                    FROM CART_ITEM
                    WHERE Cart_id= '66666');

SELECT *
FROM CART_ITEM
WHERE Cart_id IN (SELECT Cart_id
                    FROM Cart
                    WHERE Total_items > 3);
```

DROP ALL TABLES
drop table "HS732"."BRANDS" cascade constraints PURGE;
drop table "HS732"."CART" cascade constraints PURGE;
drop table "HS732"."CART_ITEM" cascade constraints PURGE;
drop table "HS732"."CATEGORY" cascade constraints PURGE;
drop table "HS732"."CUSTOMER" cascade constraints PURGE;
drop table "HS732"."ONLINE_SHOPPING_SYSTEM" cascade constraints PURGE;
drop table "HS732"."PAYMENT" cascade constraints PURGE;
drop table "HS732"."PRODUCT" cascade constraints PURGE;