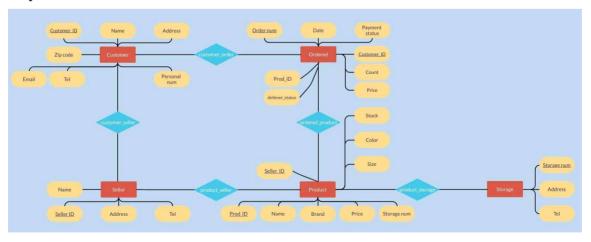
Database HW #2 - 20195003 고강빈

Step 1

1) Entity 설정

Customer, Seller, Product, Ordered, Storage

- 2) Functional Requirements
- 고객의 과거 주문 내역 확인 (주문일자, 주문품목, 물품가격 등) select * from Ordered where customer_id = '~~';
- 어떤 상품을 몇 개 출고해야 하는지 확인 select count from Ordered where prod_id = '~~';
- 특정 범위 내 가격을 가지는 물품 리스트 확인 select prod_id, name, price from Product where price between 'min' and 'max';
- 특정 브랜드 상품 확인 select prod_id, name, brand from Product where brand = '~~';
- 요금 지불이 완료된 주문내역 확인 select * from Ordered where payment_status = 'Y';
- 주문내역의 총 지불금액 계산 select count*price as tot_price from Ordered where order_num = '~~';



```
1) Entity별 Table의 Realtional Schema
1. Customer =
(customer_id, name, address, tel, email, personal_num, zip_code)
2. Seller =
(seller_id, name, address, tel)
3. Product =
(prod_id, name, brand, size, color, stock, price, storage_num, seller_id)
4. Ordered =
(order_num, date, prod_id, count, price, payment_status, customer id, deliver_status)
5. Storage =
(storage_num, address, tel)
2) CREATE TABLE
create table Customer(
    customer_id
                     char(5) not null,
    name
                     varchar(20),
    address
                    varchar(20),
    tel
                   char(11).
    email
                    varchar(30),
    personal_num
                      char(13) not null,
                    char(5),
    zip_code
    primary key(customer_id)
);
create table Seller(
    seller_id
                   char(5) not null,
    name
                     varchar(20),
    address
                    varchar(20),
    tel
                   char(11),
    primary key(seller_id)
);
```

```
create table Storage(
                     char(5) not null,
    storage_num
    address
                    varcher(20),
    tel
                   char(11),
    primary key(storage_num)
);
create table Product(
    prod_id
                    char(5) not null,
                     varchar(20),
    name
    brand
                     varchar(20),
    size
                    varchar(5).
    color
                    varchar(10),
    stock
                    numeric(7,0),
    price
                    numeric(6,0),
                     char(5) not null,
    storage_num
    seller_id
                   char(5) not null,
    primary key(prod_id),
    foreign key(storage_num) references Storage,
    foreign key(seller_id) references Seller
);
create table Ordered(
    order_num
                      char(5) not null,
    date
                    char(6),
    prod_id
                    char(5) not null,
                    numeric(3,0) not null,
    count
    price
                    numeric(6,0),
    payment_status char(1),
                     char(5) not null,
    customer_id
    delever_status char(1),
    primary key(order_num),
    foreign key(customer_id) references Customer,
    foreign key(price) references Product
);
```

```
xxsql
XXsql
insert into Customer values('38293', 'Alice', 'New York', '01012345678', 'qwer@naver.com', '9909092017213', '61005');
insert into Customer values('93886', 'Brian', 'Washington', '01023456789', 'wert@google.com', '8808081010102', '13579');
insert into Customer values('48026', 'Chris', 'LA', '01034567890', 'erty@naver.com', '770707102345', '61005');
insert into Customer values('73829', 'Diana', 'Boston', '01045678901', 'rtyu@google.com', '000101201234', '93725');
 * sqlite:///shopingmall.db
1 rows affected.
1 rows affected.
1 rows affected
1 rows affected.
%sql select * from customer;
+ sqlite:///shopingmall.db
Done:
 customer_id name address
                                         tel email personal_num zip_code
        38293 Alice New York 01012345678 qwer@naver.com 9909092017213
 93886 Brian Washington 01023456789 wert@google.com 8808081010102 13579
       48026 Chris LA 01034567890 erty@naver.com 770707102345
                                                                                                     61005
 73829 Diana Boston 01045678901 rtyu@google.com 000101201234 93725
%%sal
insert into Seller values('12345','Apeach Mart', 'San Francisco', '41512345678'); insert into Seller values('13579','Bare Bear Bros', 'Otawa', '61323456789'); insert into Seller values('24680','Choonsik Shop', 'Seoul', '0234567890');
  * sqlite:///shopingmall.db
1 rows affected.
1 rows affected.
1 rows affected.
%sql select * from seller;
 * sqlite:///shopingmall.db
Done.
 seller_id name address
                                                  tel
   12345 Apeach Mart San Francisco 41512345678
13579 Bare Bear Bros Otawa 61323456789
                                 Seoul 0234567890
   24680 Choonsik Shop
insert into Storage values('11111','Seoul','0234567890');
Insert into Storage values('22222','San Francisco','41512345678');
Insert into Storage values('33333','Otawa','61323456789');
 * sqlite:///shopingmall.db
 1 rows affected.
1 rows affected.
1 rows affected.
[]
%sql select * from storage;
 * sqlite:///shopingmall.db
Done.
                        address tel
  storage_num
         11111
                      Seoul 0234567890
     22222 San Francisco 41512345678
         33333 Otawa 61323456789
```

```
%%sal
%%sq1
insert into Product values('01010','Anonymous mask','Anonymous','L','White','10000','12000','22222','13579');
insert into Product values('02121','Buster','Ghost','XL','Black','1000','120000','33333','12345');
insert into Product values('10132','Canon Shooter','Fortress','3XL','Blue','3000','300000','11111','12345');
insert into Product values('23513','Dancing Cam',"Let's Dance",'S','White','100000','21000','22222','24680');
 * sqlite:///shopingmall.db
1 rows affected.
1 rows affected.
1 rows affected.
[]
%sql select * from product;
 * sqlite:///shopingmall.db
Done.
                                  brand size color stock price storage_num seller_id
   01010 Anonymous mask Anonymous L White 10000 12000
                                                                                               22222 13579
02121 Buster Ghost XL Black 1000 120000
                                                                                               33333 12345
   10132 Canon Shooter Fortress 3XL Blue 3000 300000
                                                                                               11111
                                                                                                          12345
23513 Dancing Cam Let's Dance S White 100000 21000 22222 24680
%%sal
XXSQ1
Insert Into Ordered values('505012','210501', '02121', '1','120000','Y','93886','Y');
Insert Into Ordered values('505010','210425', '10132', '1','300000','N','93886','N');
Insert Into Ordered values('505014','210504', '01010', '5','12000','Y','48026','N');
Insert Into Ordered values('505017','210505', '23513', '2','21000','Y','73829','Y');
 * sqlite:///shopingmall.db
  rows affected.
1 rows affected.
1 rows affected.
1 rows affected.
%sql select * from ordered;
  * sqlite:///shopingmall.db
 order_num date prod_id count price payment_status customer_id delever_status
     505012 210501 02121
                                       1 120000
                                                                         Y
                                                                                     93886
 505010 210425 10132 1 300000
                                                                          N
                                                                                     93886
                                                                                                               N
     505014 210504 01010
                                       5 12000
                                                                                       48026
                                                                                                               N
505017 210505 23513 2 21000 Y 73829
```

```
#sql select * from Ordered where customer_id = '93886'
 * sqlite:///shopingmall.db
Done.
 order_num date prod_id count price payment_status customer_id deliver_status
   505012 210501 02121 1 120000
                                      Y
                                                     93886
 505010 210425 10132 1 300000
                                             N
                                                     93886
%sql select count from Ordered where prod_id = '01010'
 * sqlite:///shopingmall.db
Done.
 count
   5
%sql select prod_id, name, price from Product where price between 20000 and 150000
 * sqlite:///shopingmall.db
Done.
 prod_id name price
 02121
            Buster 120000
23513 Dancing Cam 21000
%sql select prod_id, name, brand from Product where brand = 'Ghost'
 + salite:///shopingmall.db
prod_id name brand
 02121 Buster Ghost
%sql select * from Ordered where payment_status = 'Y'
 * sqlite:///shopingmall.db
Done.
order_num date prod_id count price payment_status customer_id delever_status
   505012 210501 02121 1 120000
                                              Y
                                                       93886
 505014 210504 01010 5 12000
                                              Y 48026
                                                                    N
   505017 210505 23513
                         2 21000
%sql select count*price as tot_price from Ordered where order_num = '505014'
 * sqlite:///shopingmall.db
Done.
tot_price
   60000
```