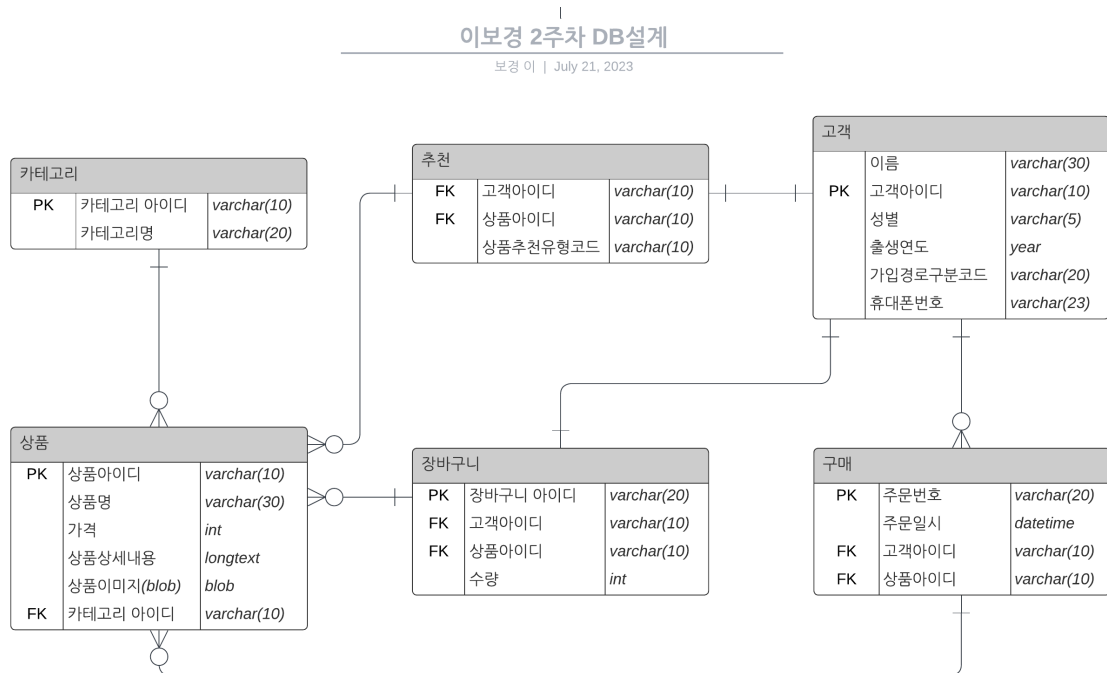


이보경 2주차 과제

1. DB 설계



2. 데이터 업로드

1) category

```
mysql> create table category (
  -> cate_id varchar(10) PRIMARY KEY,
  -> cate_name varchar(30) NOT NULL
  -> );
Query OK, 0 rows affected (0.19 sec)

mysql> select * from category;
+-----+-----+
| cate_id | cate_name |
+-----+-----+
| ct01    | top       |
| ct02    | neat      |
| ct03    | pants     |
| ct04    | skirt     |
| ct05    | dress     |
| ct06    | sports    |
| ct07    | outer     |
+-----+-----+
7 rows in set (0.01 sec)
```

2) product

```
mysql> create table product (  
  -> pd_id   varchar(10) PRIMARY KEY,  
  -> pd_name varchar(30) NOT NULL,  
  -> pd_price int NOT NULL,  
  -> pd_detail longtext,  
  -> pd_image blob NOT NULL,  
  -> cate_id varchar(10),  
  -> FOREIGN KEY(cate_id) REFERENCES category(cate_id) ON UPDATE CASCADE  
  -> );
```

Query OK, 0 rows affected (0.11 sec)

```
mysql> select * from product;
```

pd_id	pd_name	pd_price	pd_detail	pd_image	cate_id
pd01	sh1	10000	pretty t-shirt	0x	ct01
pd02	sk1	30000	cargo skirt	0x	ct04
pd03	dr1	59000	floral dress	0x	ct05
pd04	tr1	30000	training set	0x	ct06

4 rows in set (0.00 sec)

3) customer

```
mysql> create table customer (  
  -> cs_id   varchar(10) PRIMARY KEY,  
  -> cs_name varchar(30) NOT NULL,  
  -> gender  varchar(5),  
  -> birth   year,  
  -> cs_path varchar(20) NOT NULL,  
  -> cs_phone varchar(23) NOT NULL  
  -> );
```

Query OK, 0 rows affected (0.06 sec)

```
mysql> select * from customer;
```

cs_id	cs_name	gender	birth	cs_path	cs_phone
cs01	anna	F	2001	p01	010-0028-3928
cs02	jane	M	1992	p02	010-3492-3119
cs03	bell	F	1998	p01	010-0038-9899

3 rows in set (0.00 sec)

4) recommend

```
mysql> create table recommend (  
  -> cs_id   varchar(10) NOT NULL,  
  -> pd_id   varchar(10) NOT NULL,  
  -> rc_code varchar(10) NOT NULL,  
  -> FOREIGN KEY(cs_id) REFERENCES customer(cs_id) ON UPDATE CASCADE,  
  -> FOREIGN KEY(pd_id) REFERENCES product(pd_id) ON UPDATE CASCADE  
  -> );
```

Query OK, 0 rows affected (0.10 sec)

```
mysql> select * from recommend;
+-----+-----+-----+
| cs_id | pd_id | rc_code |
+-----+-----+-----+
| cs01  | pd01  | rc01    |
| cs02  | pd03  | rc02    |
| cs03  | pd02  | rc03    |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

5) purchase

```
mysql> create table purchase (
-> pc_id varchar(20) PRIMARY KEY,
-> pc_date datetime NOT NULL,
-> cs_id varchar(10) NOT NULL,
-> pd_id varchar(10) NOT NULL,
-> FOREIGN KEY(cs_id) REFERENCES customer(cs_id) ON UPDATE CASCADE,
-> FOREIGN KEY(pd_id) REFERENCES product(pd_id) ON UPDATE CASCADE
-> );
Query OK, 0 rows affected (0.09 sec)

mysql> select * from purchase;
+-----+-----+-----+-----+
| pc_id | pc_date          | cs_id | pd_id |
+-----+-----+-----+-----+
| pc01  | 2023-07-21 06:39:24 | cs01  | pd02  |
| pc02  | 2023-07-21 06:39:24 | cs02  | pd01  |
| pc03  | 2023-07-21 06:39:24 | cs03  | pd03  |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

6) cart

```
mysql> create table cart (
-> cart_id varchar(20) PRIMARY KEY,
-> cs_id varchar(10) NOT NULL,
-> pd_id varchar(10) NOT NULL,
-> amount int,
-> FOREIGN KEY(cs_id) REFERENCES customer(cs_id) ON UPDATE CASCADE,
-> FOREIGN KEY(pd_id) REFERENCES product(pd_id) ON UPDATE CASCADE
-> );
Query OK, 0 rows affected (0.09 sec)

mysql> select * from cart;
+-----+-----+-----+-----+
| cart_id | cs_id | pd_id | amount |
+-----+-----+-----+-----+
| ct01    | cs01  | pd01  | 1      |
| ct02    | cs02  | pd02  | 3      |
| ct03    | cs03  | pd04  | 2      |
+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

질문) 한 사람이 한 번에 여러 상품을 주문한 경우에도 상품 한 개씩 따로따로 입력해야 하나요?
예를 들어, 장바구니의 경우 장바구니 번호를 pk로 설치해서 따로 입력하면 한 고객에게 장바구니가 여러개 생기게 되는데 이것 해결할 수 있는 방법이 있는지 궁금합니다!

3. MongoDB 설치

```
bokyung@bokyungui-MacBookAir ~ % brew install mongodb-community
==> Fetching dependencies for mongodb/brew/mongodb-community: mongodb/brew/mongodb-database-tools,
c-ares, libnghttp2, libuv, node@16 and mongosh
==> Fetching mongodb/brew/mongodb-database-tools
==> Downloading https://fastdl.mongodb.org/tools/db/mongodb-database-tools-macos-arm64-100.7.3.zip
##### 100.0%
==> Fetching c-ares
bokyung@bokyungui-MacBookAir ~ % brew services start mongodb-community
==> Successfully started `mongodb-community` (label: homebrew.mxcl.mongodb-community)
bokyung@bokyungui-MacBookAir ~ % mongosh
Current Mongosh Log ID: 64ba2953c32fef192bc34936
Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=
2000&appName=mongosh+1.10.1
Using MongoDB: 6.0.6
Using Mongosh: 1.10.1

mongodb> use mongodb
already on db mongodb
mongodb> show dbs;
admin 40.00 KiB
config 12.00 KiB
local 40.00 KiB
mongodb> db.stats()
{
  db: 'mongodb',
  collections: 0,
  views: 0,
  objects: 0,
  avgObjSize: 0,
  dataSize: 0,
  storageSize: 0,
  indexes: 0,
  indexSize: 0,
  totalSize: 0,
  scaleFactor: 1,
  fsUsedSize: 0,
  fsTotalSize: 0,
  ok: 1
}
mongodb> show collections;
```

1) collection 생성, 삭제

```
mongodb> db.createCollection('coct2');
{ ok: 1 }
mongodb> db.coct2.isCapped();
false
mongodb> db.coct2.count();
DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount
.
0
mongodb> db.coct2.drop();
true
mongodb> db.createCollection('people');
{ ok: 1 }
mongodb> db.people.updateMany({ }, { $set: { join_date: new Date() } });
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

2) insert

```
mongodb> db.people.insertMany(
... [
... {"SN":"sn01", "no":1},
... {"SN":"sn02", "no":2},
... {"SN":"sn03", "no":3, "reg_dttm":new Date()} ]
... );
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64ba2a87c32fef192bc34937"),
    '1': ObjectId("64ba2a87c32fef192bc34938"),
    '2': ObjectId("64ba2a87c32fef192bc34939")
  }
}
```

3) find

```
mongodb> db.people.find();
[
  { _id: ObjectId("64ba2a87c32fef192bc34937"), SN: 'sn01', no: 1 },
  { _id: ObjectId("64ba2a87c32fef192bc34938"), SN: 'sn02', no: 2 },
  {
    _id: ObjectId("64ba2a87c32fef192bc34939"),
    SN: 'sn03',
    no: 3,
    reg_dttm: ISODate("2023-07-21T06:49:43.449Z")
  }
]
```