🎁 @April 18, 2022 Foreign key와 Primary key와 alter

```sql
--create table NewBook (
--    bookid number,
--    bookname varchar2(20),
--    publisher varchar2(20),
--    price number,
--    primary key(bookid)
--);

drop table NewBook;

create table NewBook(
    bookname varchar2(20) not null,
    publisher varchar2(20) unique,
    price number default 10000 check(price>1000),
    primary key(bookname, publisher)
);
--
--
--insert into NewBook(bookname, publisher)
--values('c책','cnfvkstk');
--commit;
--
--CREATE TABLE NewCustomer (
--    custid NUMBER PRIMARY KEY,
--    name VARCHAR2(40),
--    address VARCHAR2(40),
--    phone VARCHAR2(30)
--);
--
--
--DROP TABLE NewOrders;
--
--CREATE TABLE NewOrders(
--    orderid NUMBER,
--    custid NUMBER NOT NULL,
--    bookid NUMBER NOT NULL,
--    saleprice NUMBER,
--    PRIMARY KEY(orderid),
--    FOREIGN KEY(custid) REFERENCES NewCustomer(custid) ON DELETE CASCADE
--);
--
```

```
--
--
--create table NewBook(
--    bookid number,
--    bookname varchar2(20),
--    publisher varchar2(20),
--    price number
--);
--
--alter table Newbook add isbn varchar2(13);
--
--delete from Newbook;
--
--alter TABLE Newbook MODIFY isbn NUMBER;
--
--alter table Newbook drop column isbn;
--
--select * from Newbook;
--
--
--alter table Newbook add primary key (bookid);
--
--alter table Newbook drop constraint SYS_C008393;
--
--alter table Newbook add constraint book_pk primary key (bookid);
--
--alter table Newbook drop constraint book_pk;
--
--INSERT INTO Book(bookid, bookname, publisher, price) VALUES (11, '스포츠 의학', '한솔의학서적', 90000);
--
--commit;
--
--select * FROM Book where bookname='스포츠 의학';
--
--
--UPDATE Customer
--SET address='대한민국 부산'
--WHERE custid=5;
--
--UPDATE Customer
--SET address=(SELECT address
--FROM Customer
--WHERE name='김연아')
--WHERE name='박세리';
--
drop table theater;
--
CREATE table theater (
    tname VARCHAR2(20),
    tpostion VARCHAR2(20),
    tid NUMBER(8),
    primary key(tid)
);

create table TheaterRoom (
    tid NUMBER(8),
    roomid NUMBER(8) check(roomid<=10 and roomid >=1),
    movieName VARCHAR2(20),
    price NUMBER(8) check(price<20000),
    chair NUMBER(8),
    Foreign key (tid) references Theater(tid) ON DELETE CASCADE,
    primary key (tid, roomid)
);
--
create table cust(
    custid NUMBER(8),
    name VARCHAR2(20),
    address VARCHAR2(20),
    primary key(custid)
);

create table reservation(
    tid NUMBER(8),
    roomid NUMBER(8),
    custid NUMBER(20),
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```
    chair NUMBER(8),
    primary key (tid, roomid, custid),
    FOREIGN key (tid, roomid) REFERENCES TheaterRoom(tid, roomid) ON DELETE CASCADE,
    FOREIGN key (custid) REFERENCES cust(custid) ON DELETE CASCADE
);


DB 숙제

SELECT * FROM Theater;

SELECT * FROM Theater WHERE Theater.TPOSTION = '잠실';

SELECT * FROM cust WHERE address = '잠실' order by name ASC;

SELECT tid, roomid, moviename FROM TheaterRoom WHERE price <= 8000;

SELECT distinct name FROM cust, Theater WHERE ADDRESS = TPOSTION;

SELECT COUNT(*) FROM THEATER;

SELECT AVG(PRICE) FROM THEATERROOM;

SELECT COUNT(*) FROM RESERVATION WHERE to_char(날짜)='01-SEP-20';

SELECT * FROM THEATERROOM WHERE TID = (SELECT TID FROM THEATER WHERE TNAME = '대한');

SELECT * FROM THEATERROOM WHERE TID = (SELECT TID FROM THEATER WHERE TNAME = '대한');
SELECT * FROM THEATERROOM, THEATER WHERE THEATERROOM.TID = THEATER.TID and TNAME='대한';

SELECT name FROM CUST WHERE custid in (SELECT CUSTID FROM RESERVATION WHERE TID = (SELECT TID FROM THEATER WHERE TNAME = '대한'));

SELECT SUM(PRICE) FROM THEATERROOM;

SELECT TID, COUNT(*)AS 상영관수 FROM THEATERROOM GROUP BY TID;

SELECT * FROM THEATERROOM WHERE TID in (SELECT TID FROM THEATER WHERE TPOSTION = '잠실');

SELECT AVG(TOTALVIEWER) FROM (SELECT TID, COUNT(*) AS totalViewer FROM THEATERROOM WHERE to_char(날짜) = '01-SEP-20' GROUP BY TID);

SELECT TID, COUNT(*) FROM RESERVATION WHERE to_char(날짜) = '01-SEP-20' GROUP BY TID;

SELECT *
FROM
    (SELECT TID, ROOMID, COUNT(*) FROM RESERVATION GROUP BY (TID, ROOMID) order by COUNT(*) DESC) t1,
    THEATERROOM t2
WHERE
    ROWNUM=1 and
    t1.TID = t2.TID and
    t1.ROOMID = t2.ROOMID;

UPDATE THEATERROOM SET PRICE = PRICE*1.6;
```