

# DB 모델링

코로나 백신 접종여부 모델링

학과 컴퓨터 공학과 학번 201913043 이름 김백유

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요구사항 명세서

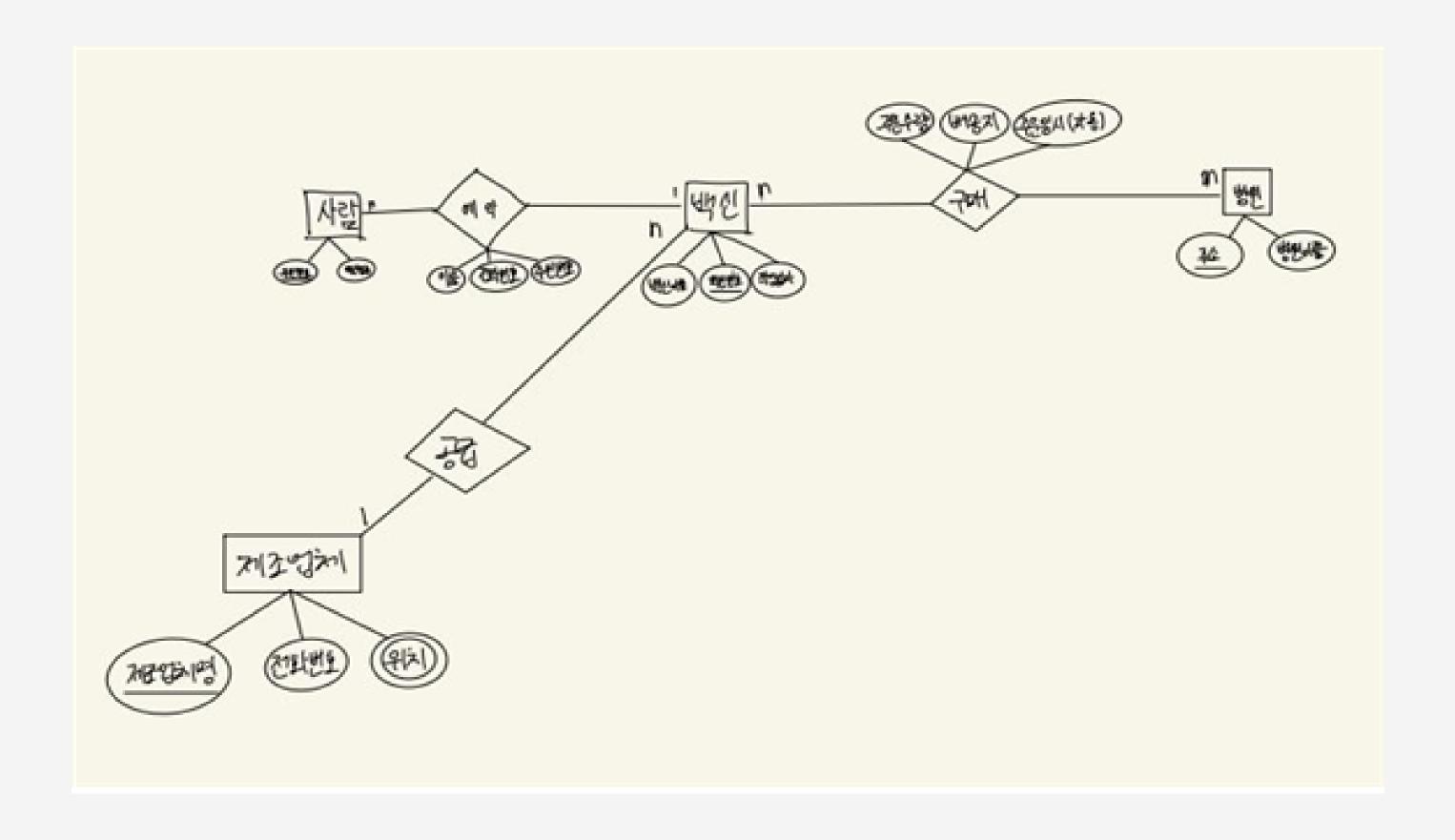


ER 다이어그램

SQL

논리 모델링 (관계형 모델)







## 테이블 구성

#### 테이블 구성 상세설명

사람(hm)

#### **HUMAN**

- 주민번호(id)[기본키], 접종여부(chk)

제조업체 (comp) COMPANY

제조업체명(name)[기본키],전화번호(phone), 위치(loc)

백신(vac)

#### **VACCINE**

- 백신이름(name),백신고유번호(num)[기본키] ,백신작성일자(year) 접종예약 (res) **RESERVATION** 

- 이름(name),주민번호(id, 사람테이블(hm)에서 외래키 (hm.id 참조), 휴대폰 번호(phone)

병원(hos)

#### HOSPITAL

- 병원주소(address)[기본키], 병원이름(name)

구매(buy)

BUY

- 주문수량(num), 배송지(loc),주문일시(time)

#### SQL DDL 상세 코드

```
----사람 테이블
                                                           --백신 테이블
CREATE TABLE hm(
                                                           CREATE TABLE vac(
   id NUMBER(13)NOT NULL,
                                                              name VARCHAR2(10)NOT NULL.
   chk VARCHAR2(1)NULL,
                                                              num VARCHAR2(12)NOT NULL,
   PRIMARY KEY(id)
                                                              year VARCHAR2(8)NOT NULL,
                                                              PRIMARY KEY(num)
select *
                                                           select *
from hm
                                                           from vac
INSERT INTO hm VALUES (7001231111111, 'O');
                                                           INSERT INTO vac VALUES ('pfizer', 'pc200601','210101');
INSERT INTO hm VALUES (8001231111111, 'X');
                                                           INSERT INTO vac VALUES ('moderna', 'pc200602','210102');
INSERT INTO hm VALUES (9001231111111, 'X');
                                                           INSERT INTO vac VALUES ('janssen', 'pc200603','210103');
INSERT INTO hm VALUES (7001232111111, 'X');
                                                           INSERT INTO vac VALUES ('janssen', 'pc200604','210104');
INSERT INTO hm VALUES (8001232111111, 'X');
                                                           INSERT INTO vac VALUES ('pfizer', 'pc200605','210105');
INSERT INTO hm VALUES (9001232111111, 'X');
                                                           INSERT INTO vac VALUES ('pfizer', 'pc200606','210106');
INSERT INTO hm VALUES (7101231111112, 'X');
                                                           INSERT INTO vac VALUES ('moderna', 'pc200607','210107');
INSERT INTO hm VALUES (8101231111112, 'X');
                                                           INSERT INTO vac VALUES ('pfizer', 'pc200608','210108');
INSERT INTO hm VALUES (9101231111112, 'X');
                                                           INSERT INTO vac VALUES ('janssen', 'pc200609','210109');
```

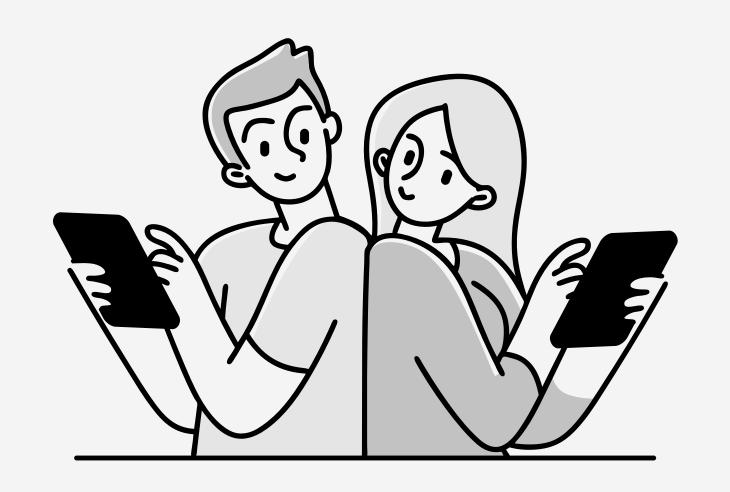
```
--제조업체 테이블
CREATE TABLE comp(
    name VARCHAR2(8)NOT NULL,
    phone VARCHAR2(12)NOT NULL,
    loc VARCHAR2(10)NOT NULL,
    PRIMARY KEY(name)
);
select *
from comp

INSERT INTO comp VALUES('pfizer','01012345678','usa');
INSERT INTO comp VALUES('moderna','01012363678','usa');
INSERT INTO comp VALUES('janssen','01012361678','usa');
```

```
--예약 테이블
CREATE TABLE res(
  name VARCHAR2(10)NOT NULL,
  id NUMBER(13)NOT NULL,
   phone VARCHAR2(16) NULL,
  FOREIGN KEY(id)
  REFERENCES hm(id)
select *
from res
INSERT INTO res VALUES ('kim',7001231111111,'01056789012');
INSERT INTO res VALUES ('lim',8001231111111,'01014448888');
INSERT INTO res VALUES ('him',9001231111111,'01053129999');
INSERT INTO res VALUES ('oim',7001232111111,'01011112222');
INSERT INTO res VALUES ('pim',8001232111111,'01033334444');
INSERT INTO res VALUES ('gim',9001232111111,'01099999999');
INSERT INTO res VALUES ('yim',7101231111112,'01055556666');
INSERT INTO res VALUES ('ik',8101231111112,'01012340000');
INSERT INTO res VALUES ('im',9101231111112,'01000000000');
```

```
--구매 테이블
CREATE TABLE buy(
   num NUMBER(8)NOT NULL,
  loc VARCHAR2(16)NOT NULL,
  time VARCHAR2(6)NOT NULL
select *
from buy
INSERT INTO buy VALUES (123, 'jeju', '210203');
INSERT INTO buy VALUES (456, 'suwon', '210204');
INSERT INTO buy VALUES (789,'gyonggi','210205');
INSERT INTO buy VALUES (111, 'ulsan', '201221');
INSERT INTO buy VALUES (222, junbuk', '211111');
INSERT INTO buy VALUES (333, 'seungnam', '201112');
INSERT INTO buy VALUES (444, 'london', '210512');
INSERT INTO buy VALUES (555, 'newyork', '210226');
INSERT INTO buy VALUES (666, 'paris', '201128');
```

```
---병원 테이블
CREATE TABLE hos(
   address VARCHAR2(10)NOT NULL,
   name VARCHAR2(12)NOT NULL,
   PRIMARY KEY(address)
select *
from hos
INSERT INTO hos VALUES ('kyonggi', 'A');
INSERT INTO hos VALUES ('seoul', 'B');
INSERT INTO hos VALUES ('daequ', 'C'):
INSERT INTO hos VALUES ('seungnam', 'D');
INSERT INTO hos VALUES ('suwon', 'E');
INSERT INTO hos VALUES ('ulsan', 'F');
INSERT INTO hos VALUES ('jeonbuk', 'G');
INSERT INTO hos VALUES ('kwangju', 'H');
INSERT INTO hos VALUES ('jeju', 'I');
```



# 감사합니다。