



ALBUM DB

DATABASE PROJECT

2023.08.23
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1. 테이블 설계

1) 대상선정 : 샤이니 앨범

2) 속성

- 멤버 (member_list) : 멤버ID, 멤버이름, 멤버생일, 멤버별칭
- 포지션(position_list) : 포지션 ID, 포지션 이름
- 포지션세팅(position_setting) : 멤버ID, 포지션ID
- 앨범(album_list) : 앨범ID, 앨범이름, 앨범발매날짜
- 곡(song_list) : 곡ID, 곡제목, 앨범ID

3) primary key(기본키)

- 멤버 (member_list) : 멤버ID
- 포지션(position_list) : 포지션 ID
- 포지션세팅(position_setting) : 멤버ID+ 포지션 ID
- 앨범(album_list) : 앨범ID
- 곡(song_list) : 곡ID

4) 형식

- | | |
|---------------------------|-------------------------|
| - 멤버 (member_list) | |
| - 멤버ID : varchar2(4) | - 멤버이름 : varchar2(10) |
| - 멤버생일 : date | - 멤버별칭 : varchar2(20) |
| - 포지션(position_list) | |
| - 포지션 ID : varchar2(4) | - 포지션 이름 : varchar2(20) |
| - 포지션세팅(position_setting) | |
| - 멤버ID : varchar2(20) | - 포지션ID : varchar2(4) |
| - 앨범(album_list) | |
| - 앨범ID : varchar2(7) | - 앨범이름 : varchar2(100) |
| - 앨범발매날짜 : date | |
| - 곡(song_list) | |
| - 곡ID : varchar2(7) | - 곡제목 : varchar2(100) |
| - 앨범ID : varchar2(7) | |



1. 테이블 설계

5) constraints(제약조건)

- 멤버 (member_list)
 - 멤버ID : not null
 - 멤버이름 : not null
 - 멤버생일 : not null
 - 멤버별칭 : not null
- 포지션(position_list)
 - 포지션 ID : not null
 - 포지션 이름 : not null
- 포지션세팅(position_setting)
 - 멤버ID : FK
 - 포지션ID : FK
- 앨범(album_list)
 - 앨범ID : not null
 - 앨범이름 : not null
 - 앨범발매날짜 : not null
- 곡(song_list)
 - 곡ID : not null
 - 곡제목 : not null
 - 앨범ID : FK



2. 튜플

1) 멤버(member_list)

| 멤버ID | 이름 | 생일 | 별명 |
|------|-----|----------|--------|
| mb01 | 김종현 | 90/04/08 | 블링블링 |
| mb02 | 김기범 | 91/09/23 | 만능열쇠 |
| mb03 | 최민호 | 91/12/09 | 꽃꽃카리스마 |
| mb04 | 이태민 | 93/07/18 | 박력템 |
| mb05 | 샤이니 | 08/05/25 | SHINee |

2) 포지션(position_list)

| 포지션ID | 포지션명 |
|-------|------|
| pt01 | 보컬 |
| pt02 | 메인보컬 |
| pt03 | 리드보컬 |
| pt04 | 메인래퍼 |
| pt05 | 리드래퍼 |
| pt06 | 메인댄서 |
| pt07 | 리드댄서 |

3) 포지션세팅(position_setting)

| 멤버ID | 포지션ID |
|------|-------|
| mb02 | pt01 |
| mb03 | pt01 |
| mb01 | pt02 |
| mb04 | pt03 |
| mb03 | pt04 |
| mb02 | pt05 |
| mb04 | pt06 |
| mb02 | pt07 |



4) 앨범(album_list)

| 앨범ID | 앨범명 | 앨범발매일자 |
|---------|---|----------|
| AL00001 | The SHINee World (SHINee The First Album) | 08/08/28 |
| AL00002 | The 2nd Album 'LUCIFER' | 10/07/19 |
| AL00003 | SHINee The 3rd Album 'The Misconceptions Of Us' | 13/08/08 |
| AL00004 | Odd - The 4th Album | 15/05/18 |
| AL00005 | 1 of 1 - The 5th Album | 16/10/05 |
| AL00006 | 'The Story of Light' Epilogue - The 6th Album | 18/09/10 |
| AL00007 | Don't Call Me - The 7th Album | 21/02/22 |
| AL00008 | HARD - The 8th Album | 23/06/26 |

5) 곡(song_list)

| 곡ID | 곡제목 | 앨범ID |
|---------|------------------|---------|
| SL00001 | The SHINee World | AL00001 |
| SL00002 | 사랑의 길 | AL00001 |
| SL00003 | 산소같은 너 | AL00001 |
| SL00004 | 너 아니면 안되는 걸 | AL00001 |
| SL00005 | 그녀가 헤어졌다 | AL00001 |
| SL00006 | 화장을 하고 | AL00001 |
| SL00007 | 마지막 선물 | AL00001 |
| SL00008 | 내 곁에만 있어 | AL00001 |
| SL00009 | 헤야 | AL00001 |
| SL00010 | 눈을 감아보면 | AL00001 |
| SL00011 | In My Room | AL00001 |
| SL00012 | 누난 너무 예뻐 | AL00001 |

3. 구현

1) 멤버 (member_list)

```
create table member_list(  
    mb_id VARCHAR2(4) not null primary key,  
    mb_Name VARCHAR2(10) not null,  
    mb_birth date not null,  
    mb_Nickname VARCHAR2(20) not null  
);  
  
insert into member_list values('mb01', '김종현', '1990-04-08', '불링불링');  
insert into member_list values('mb02', '김기범', '1991-09-23', '만능열쇠');  
insert into member_list values('mb03', '최민호', '1991-12-09', '볼꽃카리스마');  
insert into member_list values('mb04', '이태민', '1993-07-18', '박력탐');  
insert into member_list values('mb05', '사미리', '2008-05-25', 'SHINee');
```

2) 포지션(position_list)

```
create table position_list(  
    pt_id VARCHAR2(4) not null primary key,  
    pt_name VARCHAR2(20) not null  
);  
  
insert into position_list values('pt01', '보컬');  
insert into position_list values('pt02', '메인보컬');  
insert into position_list values('pt03', '리드보컬');  
insert into position_list values('pt04', '메인래퍼');  
insert into position_list values('pt05', '리드래퍼');  
insert into position_list values('pt06', '메인댄서');  
insert into position_list values('pt07', '리드댄서');
```

3) 포지션세팅(position_setting)

```
create table position_setting(  
    mb_id VARCHAR2(20) references member_list(mb_id),  
    pt_id VARCHAR2(4) references position_list(pt_id),  
    primary key(pt_id, mb_id)  
);  
  
insert into position_setting values('mb01', 'pt02');  
insert into position_setting values('mb02', 'pt01');  
insert into position_setting values('mb02', 'pt05');  
insert into position_setting values('mb02', 'pt07');  
insert into position_setting values('mb03', 'pt01');  
insert into position_setting values('mb03', 'pt04');  
insert into position_setting values('mb04', 'pt06');  
insert into position_setting values('mb04', 'pt03');
```

3. 구현

4) 앨범(album_list)

```
create table album_list(  
    al_id varchar2(7) not null primary key,  
    al_name varchar2(100) not null,  
    al_date date not null  
);  
  
insert into album_list values('AL00001', 'The SHINee World (SHINee The First Album)', '2008-08-28');  
insert into album_list values('AL00002', 'The 2nd Album "LUCIFER"', '2010-07-19');  
insert into album_list values('AL00003', 'SHINee The 3rd Album "The Misconceptions Of Us"', '2013-08-08');  
insert into album_list values('AL00004', 'Odd - The 4th Album', '2015-05-18');  
insert into album_list values('AL00005', 'I o! I - The 5th Album', '2016-10-05');  
insert into album_list values('AL00006', '"The Story of Light" Epilogue - The 6th Album', '2018-09-10');  
insert into album_list values('AL00007', 'Don't Call Me - The 7th Album', '2021-02-22');  
insert into album_list values('AL00008', 'HARD - The 8th Album', '2023-06-26');
```

5) 곡(song_list)

```
create table song_list(  
    só_id varchar2(7) not null primary key,  
    só_name varchar2(100) not null,  
    al_id varchar2(7) references album_list(al_id)  
);  
  
insert into song_list values('SL00001', 'The SHINee World', 'AL00001');  
insert into song_list values('SL00002', '사람의 길', 'AL00001');  
insert into song_list values('SL00003', '산소같은 너', 'AL00001');  
insert into song_list values('SL00004', '너 마니면 만되는 걸', 'AL00001');  
insert into song_list values('SL00005', '그녀가 헤어졌다', 'AL00001');  
insert into song_list values('SL00006', '화장을 하고', 'AL00001');  
insert into song_list values('SL00007', '마지막 선물', 'AL00001');  
insert into song_list values('SL00008', '내 곁에만 있어', 'AL00001');  
insert into song_list values('SL00009', '헤어', 'AL00001');  
insert into song_list values('SL00010', '눈을 감아보면', 'AL00001');  
insert into song_list values('SL00011', 'In My Room', 'AL00001');  
insert into song_list values('SL00012', '누난 너무 예뻐', 'AL00001');
```

