



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) | - 멤버ID : varchar2(4) |



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
 - 멤버ID : 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	사이니	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	멤버ID
SL00001	The SHINee World	AL00001	mb05
SL00002	사랑의 길	AL00001	mb05
SL00003	산소같은 너	AL00001	mb05
SL00004	너 아니면 안되는 걸	AL00001	mb05
SL00005	그녀가 헤어졌다	AL00001	mb05
SL00006	화장을 하고	AL00001	mb05
SL00007	마지막 선물	AL00001	mb05
SL00008	내 곁에만 있어	AL00001	mb05
SL00009	헤야	AL00001	mb05
SL00010	눈을 감아보면	AL00001	mb05
SL00011	In My Room	AL00001	mb05
SL00012	누난 너무 예뻐	AL00001	mb05



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', '볼꽃 카리스마');  
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 óf 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),  
    mb_id VARCHAR2(4) references member_list(mb_id)  
);  
  
insert into song_list values('SL00001', 'The SHINee World', 'AL00001', 'mb05');  
insert into song_list values('SL00002', '사람의 길', 'AL00001', 'mb05');  
insert into song_list values('SL00003', '산소같은 너', 'AL00001', 'mb05');  
insert into song_list values('SL00004', '너 마리면 만되는 걸', 'AL00001', 'mb05');  
insert into song_list values('SL00005', '그녀가 헤어졌다', 'AL00001', 'mb05');  
insert into song_list values('SL00006', '화장을 하고', 'AL00001', 'mb05');  
insert into song_list values('SL00007', '마지막 선물', 'AL00001', 'mb05');  
insert into song_list values('SL00008', '내 결메만 있어', 'AL00001', 'mb05');  
insert into song_list values('SL00009', '혜야', 'AL00001', 'mb05');  
insert into song_list values('SL00010', '눈을 감아보면', 'AL00001', 'mb05');  
insert into song_list values('SL00011', 'In My Room', 'AL00001', 'mb05');  
insert into song_list values('SL00012', '누난 너무 예뻐', 'AL00001', 'mb05');
```

