DBM₁

Music database

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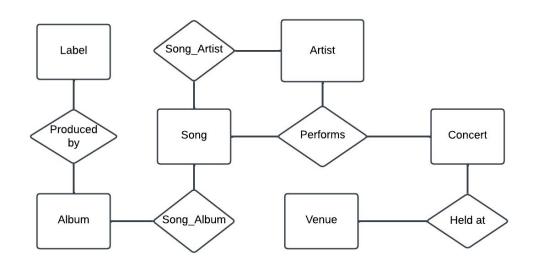
Linking songs and performers to concerts

Linking songs to albums and labels

Artist is either bands or solo performers

Credited artist

Every song in at least one album



Dataset

ChatGPT

"Can you give me information on radiohead with the values ArtistName, country, NoMembers, yearStarted, yearEnded year ended can be 0 if they're still active"

- -> csv files
- ->database (python)

Queries

```
def show_most_concert(request):
   query=""
       SELECT c.ConcertName, COUNT(DISTINCT csa.ArtistID) AS ArtistCount
       FROM artist app concert c
       JOIN artist app_concertsongartist csa ON c.ConcertID = csa.ConcertID
       GROUP BY c.ConcertID
       ORDER BY ArtistCount DESC
       LIMIT 1;
   cursor.execute(query)
   concert = cursor.fetchone()
   query2=f"""
       SELECT DISTINCT ArtistName
       FROM artist app concert c
       JOIN artist_app_concertsongartist csa ON c.ConcertID = csa.ConcertID
       JOIN artist_app_artist a ON a.ArtistID = csa.ArtistID
       WHERE c.ConcertName = '{concert[0]}';
   cursor.execute(query2)
   artists = cursor.fetchall()
   artists = [Artist.objects.get(ArtistName=artist[0]) for artist in artists]
   return render(request, "most_played_concert.html", {'concert': concert, 'artists': artists})
```

"Which concert has had the most artists?"

"Which artist have done the most performances at concerts?"

```
def show_artist_with_most_performances(request):
    query='''
        SELECT a.ArtistID, a.ArtistName, COUNT(csa.SongID) as SongsPlayed
        FROM artist_app_concertsongartist csa
        JOIN artist_app_artist a on a.ArtistID = csa.ArtistID
        Group By a.ArtistID, a.ArtistName
        ORDER BY SongsPlayed DESC
        LIMIT 1;
        ...
    cursor.execute(query)
    artist = cursor.fetchone()

return render(request, 'most_performances.html', {'artist':artist})
```