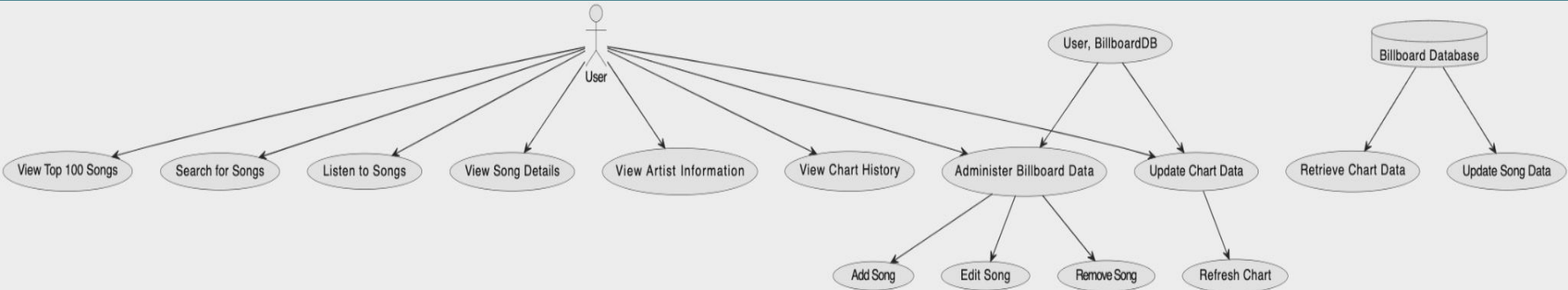# YEAR-END CHARTS
Hot 100 Songs

By: Pranav Chakilam & Mark Soria

UML Use Case Diagram

Users can "View Top 100 Songs" to keep up with the most recent number-one hits and "Search for Songs" to easily find particular songs. "View Song Details" and "View Artist Information" provide in-depth information about songs and their authors when they "Listen to Songs". The "View Chart History" displays a song's performance over time. By adding, updating, or removing songs, administrators can "Administer Billboard Data" and "Update Chart Data" to maintain the chart's real-time accuracy.
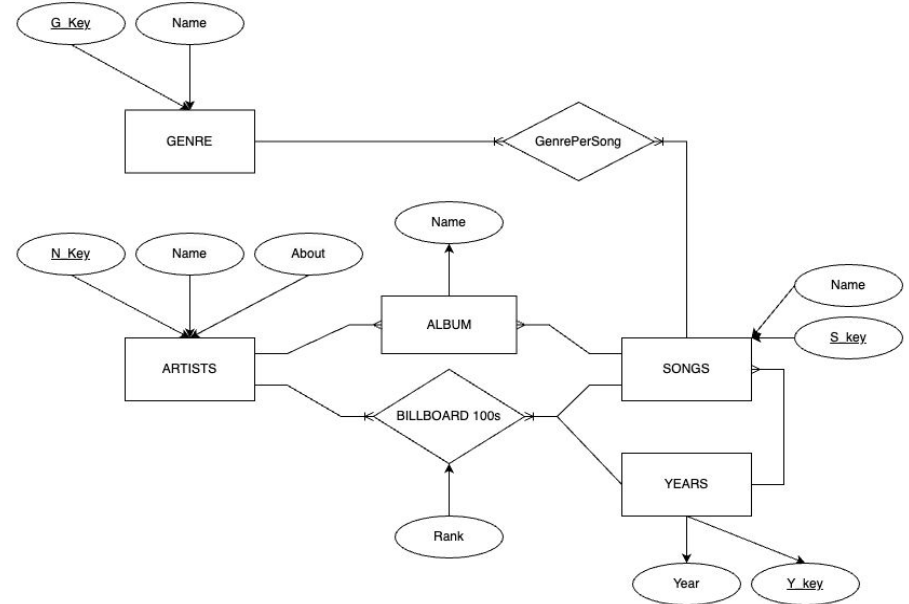
E/R diagrams

We have 6 entities in total

We have 2 different ways of joining artists and songs

Billboard Entity consists of 3 foreign keys

Relation specification

The GenrePerSong table is meant to help combine the Genre and Song table as these tables have a many to many relationship

GENRE		
PK	G_Key	
	Name	

GenrePerSong		
FK	G_Key	
FK	S_KEY	

ARTIST		
PK	N_Key	
	Name	
	About	

ALBUM		
FK	N_Key	
FK	S_Key	
	Name	

SONGS		
PK	S_key	
FK	Y_key	
	Name	

BILLBOARD 100s		
FK	N_Key	
FK	S_Key	
FK	Y_Key	
	Rank	

YEAR		
PK	Y_Key	
	Year	