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Playlist	
pName	
numberOfSongs	

1..* —adds>— 1..*

Song	
songName	
artist	
yearWritten	

SongAdd
initialDate

1..1

1..*

SongAdded
position
pLock

Explanation

The reason we decided to on the association between playlist and songs is because a playlist can have many songs inside of it and a song can be inside of many playlist.

With the association of Songadd to the Song and playlist, this is to keep track of the date that the song was added. Same goes for SongAdded, but instead of date, SongAdded keeps track of the position that the song was added into the playlist.

The lock attribute in songAdded is a boolean value that would help determine if a certain position within the playlist is already taken or not. This would prevent two songs from being in the same position.

Song

songID	songName	Artist	year
PK			

1..1

Playlist

pName	numberOfSongs
PK	

1..1

1..*   1..*

Song Add

FK	FK	
songID	pName	initialDate
PK		CK

1..1

1..*

Song Added

FK			
songID	pName	position	pLock
PK			CK