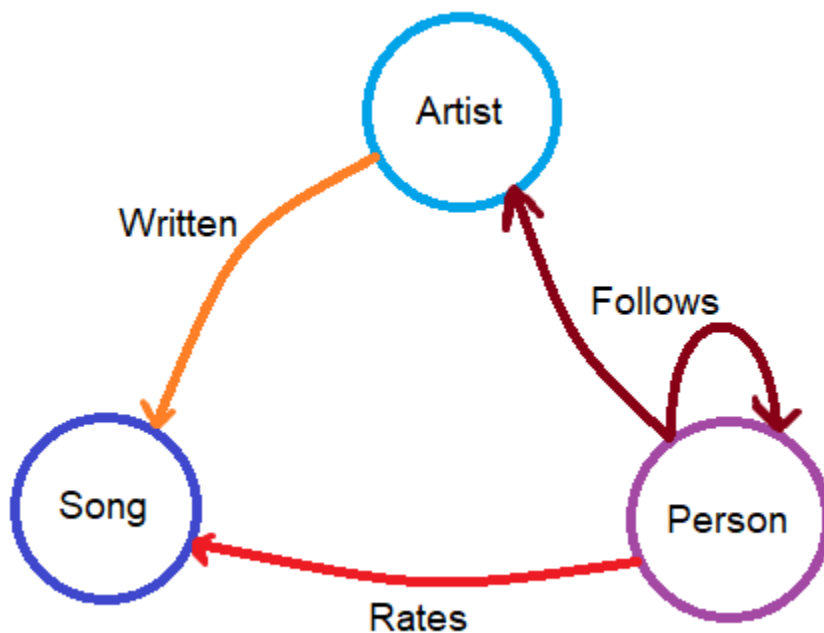


# Graph database – music app

## 1. Description of database:

This database stores information about people, artists and songs. Additionally, it has information about relationships between them: written, rate and follows. Each element stores information about itself. This database is designed only for one app.

## 2. Structure of graph:



## 3. Description of elements:

Artist:

Description: Represents individual artist who shares songs.

Properties:

Name – name of the artists

Surname – surname of the artist

Day\_of\_birth – artist's day of birth

Gender – artist's gender

Nickname – artist's nickname

Person:

Description: Represents individual person who is our user.

Properties:

Name – name of the person

Surname – surname of the person

Day\_of\_birth – person's day of birth

Gender – person's gender

Song:

Description: Represents individual song.

Properties:

Title – title of the song

Genre – genre of the song

Duration – duration of the song

Release\_date – release date of the song

Written:

Description: Connects song with its author or authors.

Rates:

Description: Connects song with person who rated it.

Properties:

Rate – rate given by the listener

Timestamp – date and time when listener rated song

Follows:

Description: Connects person with followed artist or different user.

Properties:

Since – date since follow is existing

#### **4. Competency questions:**

1. Which songs have the best average rating?
2. What artist has the biggest number of songs?
3. What person/artist has the most followers?
4. What is the correlation between the listener's and the artist's gender?
5. What genre has the best average rating?
6. What artist has the best average rate for their songs?
7. What listener made the biggest number of rates?