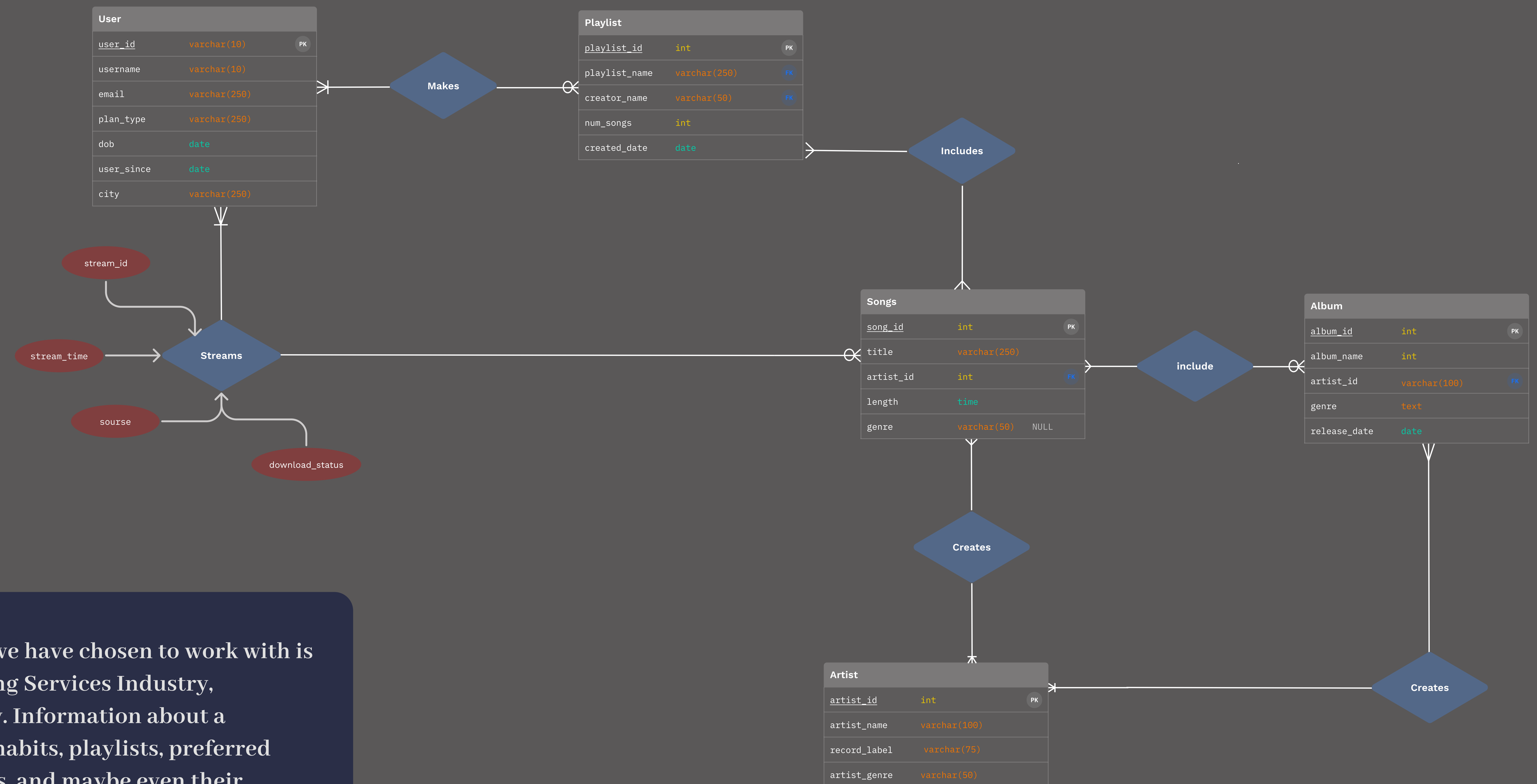


# Entity Relationship Diagram- Spotify

Project Members: Nathan Nguyen, Cherish Chen, Aakash Baheti, Molly Banks



The industry that we have chosen to work with is the Music Streaming Services Industry, specifically Spotify. Information about a person's listening habits, playlists, preferred genres, preferences, and maybe even their demographics are examples of user data. Our database can help answer questions that will be relevant to create internal and client-facing data reports. This information is gathered by Spotify in order to improve user experience, offer tailored suggestions, and advance its overall service.

## 20 Questions for Database Queries

### Molly's Questions:

- [Q1] For each user, what is their most streamed song? What is the download status of their most streamed song? (user, Spotify analyst)
- [Q2] For each playlist, what is the most common genre? (user, analyst, algorithm)
- [Q3] What is the average number of songs per user-created playlist? What about the average Spotify created playlist? (Spotify analyst, researcher)
- [Q4] For each spotify membership plan type, what is the most popular genre? (Spotify plan providers)
- [Q5] For each user, how many playlists do they have that have less than 5 songs? Greater than 10 songs? (Curator, analyst)

### Cherish's Questions:

- [Q6] How many unique users have streamed a particular song or artist within the last month?(Spotify analyst)
- [Q7] What are the top 10 most popular playlists based on the number of streams each playlist has accumulated?(Spotify analyst, user)
- [Q8] What is the average length of a streaming session for each user, and how does this vary across different subscription plan types?(Spotify analyst, user)
- [Q9] For each city, what is the most streamed genre?(Spotify analyst, musical marketer)
- [Q10] What is the most recent album released by a given artist?(artist, Spotify analyst)

### Nathan's Questions:

- [Q11] For each city, what are the top 5 most streamed artists? (User, analyst, curator)
- [Q12] What is the total number of streams for each of my albums? (Artist)
- [Q13] How many unique song genres are there in each user-made playlist? (Curator)
- [Q14] What are the most streamed albums released in the past month? (User)
- [Q15] How many streams did my latest album receive in the first week after release? (Artist)

### Aakash's Questions:

- [Q16] What was the most listened to song in 2020? (Curator)
- [Q17] What are the top 5 most streamed songs of all time? (User, Analyst, Curator)
- [Q18] For each city, what is the most streamed playlist? (User, Analyst, Curator)
- [Q19] What is the least listened to genre in 2020? (Curator)
- [Q20] For the city of Los Angeles, what is the most streamed song? (User, Analyst, Curator)