WHAT WE ARE STORING:

```
ADVANCED_STATS_DATA = {                              # Advanced stats from extended streaming history
"Number of Streams"      : integer,                  # At least 30 seconds or half the song
"Number of Minutes"      : float,                    # Total over all songs
"Average Percentage"     : float,                    # Avg. (ms played/ms tracklength) over all streams
"Time of Day Breakdown" : [float, float, float],     # % of time listened in morning, afternoon, and night
"Tracks"                 : TRACK_DICT,                # Track dictionary described below
"Artists"                : ARTIST_DICT,               # Artist dictionary described below
"Albums"                 : ALBUM_DICT,                # Album dictionary described below
"Yearly"                 : YEARLY_DICT                # Yearly dictionary described below
}


YEARLY_DICT = {
"(YEAR 1)"               : YEARLY_DATA,               # Yearly data dictionary described below
...
"(YEAR N)"               : YEARLY_DATA                # Yearly data dictionary described below
}


YEARLY_DATA = {                                       # Advanced stats by year
"Number of Streams"      : integer,                  # At least 30 seconds or half the song
"Number of Minutes"      : float,                    # Total over all songs
"Average Percentage"     : float,                    # Avg. (ms played/ms tracklength) over all streams
"Time of Day Breakdown" : [float, float, float],     # % of time listened in morning, afternoon, and night
"Tracks"                 : TRACK_DICT,                # Track dictionary described below
"Artists"                : ARTIST_DICT,               # Artist dictionary described below
"Albums"                 : ALBUM_DICT,                # Album dictionary described below
"Monthly"                : MONTHLY_DICT               # Monthly dictionary described below
}
```

```
MONTHLY_DICT = {
“JANUARY”               : MONTHLY_DATA,          # Monthly data dictionary described below
…
“DECEMBER”              : MONTHLY_DATA           # Monthly data dictionary described below
}


MONTHLY_DATA = {                                 # Advanced stats by month
“Number of Streams”     : integer,               # At least 30 seconds or half the song
“Number of Minutes”     : float,                 # Total over all songs
“Average Percentage”    : float,                 # Avg. (ms played/ms tracklength) over all streams
“Time of Day Breakdown” : [float, float, float], # % of time listened in morning, afternoon, and night
“Tracks”                : TRACK_DICT,            # Track dictionary described below
“Artists”               : ARTIST_DICT,           # Artist dictionary described below
“Albums”                : ALBUM_DICT             # Album dictionary described below
}


TRACK_DICT = {
“(URI 1)”               : TRACK_DATA,            # Track data dictionary described below
…
“(URI N)”               : TRACK_DATA             # Track data dictionary described below
}


ARTIST_DICT = {
“(URI 1)”               : ARTIST_DATA            # Artist data dictionary described below
…
“(URI N)”               : ARTIST _DATA           # Artist data dictionary described below
}


ALBUM_DICT = {
“(URI 1)”               : ALBUM_DATA             # Album data dictionary described below
…
“(URI N)”               : ALBUM_DATA             # Album data dictionary described below
}
```

Note: all track and albums data are dependent on what dictionary they are in. For example, the "Number of Streams" key in TRACK_DATA will have the number of streams of that track by the user for the year of 2022 if this dictionary was found at the following:

ADVANCED_STATS_DATA["Yearly"]["2022"]["Tracks"]["(URI)"]

Likewise, it will have the number of streams of that track by the user for the month January of 2022 if this dictionary was found at the following:

ADVANCED_STATS_DATA["Yearly"]["2022"]["Monthly"]["January"]["Tracks"]["(URI)"]

TRACK_DATA = {

Key	Type	Comment
"Name"	: String	# Name of song or podcast in format "(show):(ep)"
"Number of Streams"	: integer,	# 30 secs (30 mins for podcasts) or half song/podcast
"Number of Minutes"	: float,	# Total over time period
"Average Percentage"	: float,	# Avg. (ms played/ms tracklength) over song streams
"Link"	: String,	# Spotify link to track
"Skips"	: integer	# Number of skips

}

ARTIST_DATA = {

Key	Type	Comment
"Name"	: String,	# Name of artist
"Number of Streams"	: integer,	# At least 30 seconds or half the song
"Number of Minutes"	: float,	# Total over all songs in album
"Average Percentage"	: float,	# Avg. (ms played/ms tracklength) over songs
"Link"	: String	# Spotify link to artist

}

ALBUM_DATA = {

Key	Type	Comment
"Name"	: String,	# Name of album
"Number of Streams"	: integer,	# At least 30 seconds or half the song
"Number of Minutes"	: float,	# Total over all songs in album
"Average Percentage"	: float,	# Avg. (ms played/ms tracklength) over songs
"Link"	: String	# Spotify link to album

}