WHAT WE ARE STORING:

ADVANCED_STATS_DATA = { # Advanced stats from extended streaming history "Number of Streams" # At least 30 seconds or half the song : integer, "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 dictionary described below : ALBUM DICT, "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" # At least 30 seconds or half the song : integer, "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"
                                                           # At least 30 seconds or half the song
                         : integer,
"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 dictionary described below
                         : ALBUM_DATA
"(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 = {
"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
"Skips"
                          : integer,
                                                             # Number of skips
}
ARTIST DATA = {
"Name"
                                                             # Name of artist
                          : String,
"Number of Streams"
                          : integer,
                                                             # At least 30 seconds or half the song
"Number of Minutes"
                                                             # Total over all songs in album
                          : float,
"Average Percentage"
                                                             # Avg. (ms played/ms tracklength) over songs
                          : float
ALBUM_DATA = {
"Name"
                                                             # Name of album
                          : String,
"Number of Streams"
                                                             # At least 30 seconds or half the song
                          : integer,
"Number of Minutes"
                          : float,
                                                             # Total over all songs in album
"Average Percentage"
                          : float
                                                             # Avg. (ms played/ms tracklength) over songs
```