* 1. Application background
     1. The purpose of this database is to store and reference the information and data of a music database. This style database could be used in applications for radio stations to look up the music accessible in a library. To create this database we will likely use .net and SQLServer. We may also use Selenium to collect data.
  2. D
     1. Track
        1. Tid: Primary Key
        2. TrackName
        3. Duration
        4. Year
        5. Play Count
        6. Artist\_Id: Foreign Key
        7. Album\_Id: Foreign Key
     2. Albums
        1. AlbumId: Primary Key
        2. AlbumName
        3. Num\_Tracks
        4. Year\_Released
        5. Duration
        6. By\_artist
        7. Artist\_Id: Foreign Key
     3. Artist
        1. Artist\_Id: Primary Key
        2. ArtistName
        3. Listens
        4. Num\_Albums
     4. T*rack* is in an album and it has a key constraint and a participation constraint because a track has to belong to an album and each track has a unique id, so each track entity will belong to only one album. If there is one song on two albums then it will have two distinct *trackIds*. *Album* has a participation constraint which states each album has to have at least one track. *Album* has a participation constraint that an album has to have at least one artist. *Artist* has a participation constraint that an artist has to have at least one album. *Track* has an artist which is a key constraint and a participation constraint because a track has to have a least one artist and if a track has multiple artists then that group of artist will be described as a different artist name. *Artist* has a participation constraint to *Track* because an artist has to have a least one track.
     5. Functions
        1. Sort by attributes
        2. Find all albums by artists
        3. Find all tracks by artist
        4. Find all tracks in an album
        5. Find all artists by album
        6. Find all artist by track
        7. Find all albums by artist
     6. Interface
        1. The interface will consists of a search bar where you type a query. Next to the search bar will be a drop down menu for the style of sorting. Beneath the two of these will be a window that has the results.
  3. Stapled
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