

Konvertierung des ER-Musikdatenbankmodells zum relationalen Modell

MUSIKDATENBANK = {artist, artist_tags, has_tags, similarity, song, album, review, author}

artist: {artist_id:varchar, artist_name: varchar, artist_popularity:float, artist_familiarity:float}

artist_tags: {tag_id: int, tag: text}

has_tags: {↑ artist_id:varchar, ↑tag_id:int }

~~is_similar_to~~ similarity: {~~artist_id~~ ↑ **target_artist**:varchar, ~~artist_id~~ ↑ **similar_artist**:varchar}

song { track_id: varchar, title: text, song_year:int, duration:float, ↑ **artist_ID**:varchar, ~~review_id~~ ↑ **reviewed_in**:int}

album: { review_id:int, album_name: text, genre:text, album_year:int, label:text}

review: { review_id:int, content_review:text, score:float, review_year:int, url:text, ~~artist_id~~ ↑**reviewed_artist**:varchar, ~~author_id~~ ↑**review_author**:varchar}

author: { author_id:varchar, author_name:text, author_type:text}

einzelne Schritte zur Nachverfolgung:

1. Konvertierung starker Entity-Typen

artist: {artist_id, artist_name, artist_popularity, artist_familiarity}

artist_tags: { artist_id, mb_tag }

song: { track_id, title, song_year, duration }

album: { review_id , album_name , genre , album_year , label}

review: { review_id, content_review, score, review_year, url }

author: { author_id, author_name, author_type }

2. N:M

artist: {artist_id, artist_name, artist_popularity, artist_familiarity, ~~track_id~~ **song_id**}

~~is_similar_to~~ similarity: {~~artist_id~~ **target_artist**, ~~artist_id~~ **similar_artist**}

artist: {artist_id, artist_name}

tags: {tag_id, tag}

has_tags: { { artist_id, tag_id }

3. 1:N

artist: {artist_id, artist_name, artist_popularity, artist_familiarity}

song: { track_id, title, song_year, duration, **artist_ID**}

~~creates: {artist_id, track_id}~~

artist: {artist_id, artist_name, artist_popularity, artist_familiarity, ~~track_id~~ **song_id**}

review: { review_id, content_review, score, review_year, url, ~~artist_id~~ **reviewed_artist**}

~~includes: {artist_id, review_id}~~

song { track_id, title, song_year, duration, ~~review_id~~ **reviewed_in** }

album: album: { review_id , album_name , genre , album_year , label}

~~contains: { track_id, { review_id }~~

author: { author_id, author_name, author_type }

review: { review_id, content_review, score, review_year, url, ~~artist_id~~ **reviewed_artist**,
~~author_id~~ **review_author**}

~~writes {author_id, review_id}~~

4. 1:1

review: { review_id, content_review, score, review_year, url, ~~artist_id~~ **reviewed_artist**,
~~author_id~~ **review_author** }

album: { review_id , album_name , genre , album_year , label}

~~reviews: { review_id, review_id }~~