

NWD Data Dictionary - Lyric DB Subset

Note: All tables should have columns for CreatedAt and UpdatedAt with associated triggers to handled the population of each. They have been omitted from the data dictionary as their usage and purpose is redundant.

Lyric Tables Subset

ArpaBetWord
LyricBit
LyricPhrase
LyricSequence
Pronunciation
Rhyme
RhymeGroup
SequencePosition
WordPhrase

Table: ArpaBetWord

ArpaBetWordId
ArpaBetWordValue

Holds words stored in the ARPAbet format

Table: LyricBit

LyricBitId
LyricBitValue

Holds lyric bits of any size, when bits are split into smaller bits, retain original and new in this table

Table: LyricPhrase

LyricPhraseId
LyricBitId
WordPhraseId

Holds association between lyric bits and word phrases. Not all possible phrases need be stored for any lyric bit, but this allows the prominent/important segments to be

Table: LyricSequence

LyricSequenceId
LyricSequenceDescription

Represents a sequence of LyricBits, with an optional description. This can be an entire song, a single verse, or even just two lines. It is for anytime we need to retain positional sequencing for multiple lyric bits within a grouping.

Table: Pronunciation

PronunciationId
WordPhraseId
ArpaBetWordId

Creates a many-to-many mapping for word phrases and their ARPAbet pronunciation values. (e.g. "weigh" and "way" are different WordPhrases yet share a common ARPAbetWord. "read" in the present tense and "read" in the past tense are the same WordPhrase, yet are associated with different ARPAbetWords)

Table: Rhyme

RhymeId
RhymeGroupId
WordPhraseId

Used to associate both perfect rhymes (e.g. "book" and "took") as well as slant rhymes (e.g. "book" and "soot") based on prior art by assigning them to common RhymingGroups. One word, by virtue of slant rhymes, can belong to many RhymingGroups, and obviously one RhymingGroup contains more than one WordPhrase. These two requirements dictate the necessity of this table.

Table: RhymeGroup

RhymeGroupId

Required to support both perfect rhymes and slant rhymes (refer to notes on Table: Rhyme)

Table: SequencePosition

SequencePositionId
LyricSequenceId
LyricBitId
SequencePosition

Holds the numeric position/index of a given LyricBit within a specified LyricSequence

Table: WordPhrase

WordPhraseId
WordPhraseValue

Holds all WordPhrases, defined as a phrase containing one or more words (thus single words are also in this table).