

Free Diagram Documentation

Link to schema: <https://app.quickdatabasediagrams.com/#/d/5e2XSw>

UT-TOR-DATA-PT-01-2020-U-C Group Project 2

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By default SQLite doesn't enforce foreign key constraints.

Use "PRAGMA foreign_keys=on;" to overcome this

Song

Every song is uniquely identified by name and performer (which might be several bands/musicians)

Field	Description	Type	Default	Other
id	id - synthetic key used for referencing	INTEGER		PK, IDENTITY
song_name	First part of UNIQUE constraint	TEXT		
performed_by	Second part of UNIQUE constraint It is a string as visible on the web page. However, for collaborations it actually consists of several parts - each for one performer, which is visible during scraping. Later each performer is saved separately and its order in the list is saved too.	TEXT		

Artist

A musician or a band. Name is derived from charts website. Other info should be scraped from Wikipedia.

Probably will have to make special admin page to help fill some info by hand

Field	Description	Type	Default	Other
id		INTEGER		PK
name		TEXT		UNIQUE
is_band		INT		NULLABLE
genre		TEXT		NULLABLE
image		TEXT		NULLABLE
wiki		TEXT		NULLABLE
dob		TEXT		NULLABLE
origin		TEXT		NULLABLE

Performed_by

The table is necessary because many songs are created in collaboration by several artists. Those performers are listed on the web page which is seen during scraping. The ordinal number of an artist in this list is saved in "order" column. The value starts with 0.

Example of multiartist strings: "Dan featuring Shay and Justin Bieber"

Create using 'WITHOUT ROWID' because of the composite PK

Field	Description	Type	Default	Other
song_id		INT		PK, FK
artist_id		INT		PK, FK
order	Ordinal number of the performer in Song.performed_by string	INT		

Chart

Create using 'WITHOUT ROWID' because of the composite PK

Index by song_id

Field	Description	Type	Default	Other
year		INT		PK
week		INT		PK
position		INT		PK
song_id		INT		FK