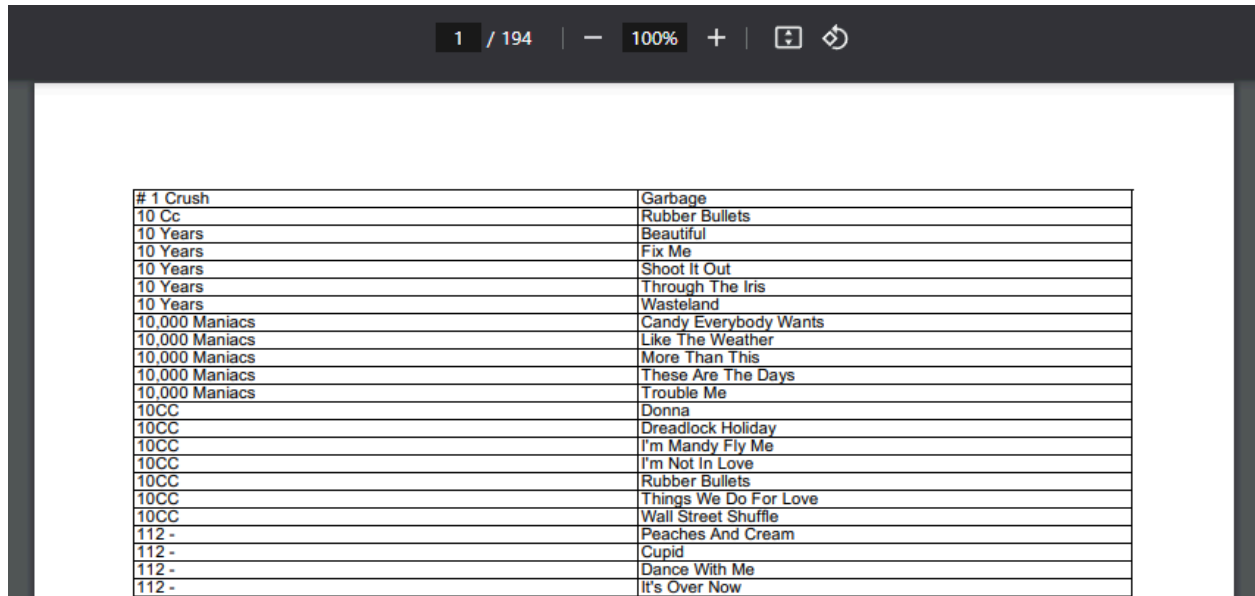


Karaoke Song List Project

Context: Alex's Bar is a hip, alternative bar with a karaoke night every Tuesday. Their song list is displayed on QR codes throughout the bar. This is a poor way to navigate a song list from the perspective of a bar patron because this list of well over a thousand songs can be overwhelming.

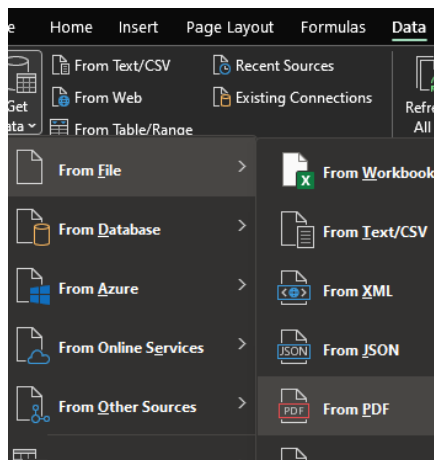
Goal: Using Excel, MYSQL, and Tableau, create a more user-friendly songlist.

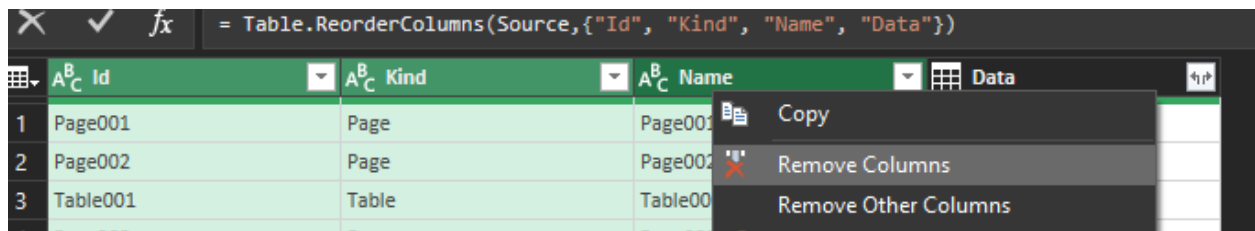


# 1 Crush	Garbage
10 Cc	Rubber Bullets
10 Years	Beautiful
10 Years	Fix Me
10 Years	Shoot It Out
10 Years	Through The Iris
10 Years	Wasteland
10,000 Maniacs	Candy Everybody Wants
10,000 Maniacs	Like The Weather
10,000 Maniacs	More Than This
10,000 Maniacs	These Are The Days
10,000 Maniacs	Trouble Me
10CC	Donna
10CC	Dreadlock Holiday
10CC	I'm Mandy Fly Me
10CC	I'm Not In Love
10CC	Rubber Bullets
10CC	Things We Do For Love
10CC	Wall Street Shuffle
112 -	Peaches And Cream
112 -	Cupid
112 -	Dance With Me
112 -	It's Over Now

Obstacle one: The PDF does not paste into Excel cleanly. We have to get data from the PDF and create one table. Power Query mistook the 194 pages of songs as individual tables, so I figured out how to merge them after 15 minutes of Google-fu.

I deleted all non-data columns and expanded the tables





This is the final result. From here, we will switch to MySQL because this is a SQL project.

	A	B
1	Artist	Song
2	# 1 Crush	Garbage
3	10 Cc	Rubber Bullets
4	10 Years	Beautiful
5	10 Years	Fix Me
6	10 Years	Shoot It Out
7	10 Years	Through The Iris
8	10 Years	Wasteland
9	10,000 Maniacs	Candy Everybody Wants
10	10,000 Maniacs	Like The Weather
11	10,000 Maniacs	More Than This

MYSQL

I created the karaoke schema, and now I'm creating our main table before I import the Excel file as a CSV into my table. I then used the import wizard frankly, because coding it out is a waste of time when I have a more efficient option.

From, here I'm going to operate in a new script so I don't run any DDL commands on accident.

```

1 DROP DATABASE IF EXISTS karaoke;
2 CREATE DATABASE karaoke;
3 USE karaoke;
4
5 CREATE TABLE song_list (
6     artist varchar (50),
7     song varchar (50)
8 );

```

Data Cleaning

I now want to delete any hyphens at the end of artist names just so my data is clean. I'm going to test this out on a temp table.

```

5  * CREATE TEMPORARY TABLE temp_song_list
6      SELECT * FROM song_list;
7
8  * UPDATE temp_song_list
9      SET artist =
10         CASE
11             WHEN RIGHT(artist, 1) = '-' THEN LEFT(artist, LENGTH(artist) - 1)
12             ELSE artist
13         END
14     WHERE RIGHT(artist, 1) = '-';



```

Below, you can see that a query searching for artists that end with a hyphen yielded no results! Success. Now I'm going to drop the temp table and apply this query to my main table.

```

17 * SELECT artist
18     FROM temp_song_list
19     WHERE artist LIKE '%-';

```

Result Grid |   Filter Rows:

artist

My last act of data cleaning was trimming leading and trailing spaces from artists and songs. It occurred to me this was a lot simpler than what I did for hyphens, but that's a lesson for the next time I do this.

```

8
9  * UPDATE song_list
10      SET song = TRIM(song);
11 * UPDATE song_list
12      SET artist = TRIM(artist);
13

```

I thought about making artist and song ids and tables to house them, but that's pandering at this point and won't help me with the goal at hand. Time to create user applications of the dataset I created.

Tableau / User

I exported my squeaky clean table into a CSV for use in Tableau. There's no other way I can think of to efficiently display the data other than a pivot table in this manner.

≡ Rows	Artist	Song
--------	--------	------

Song List

Artist	Song	
2 Chainz	Spend It	Abc
2 Chainz Asap Rocky Ft. D..	Fuckin' Problems	Abc
2 Chainz Feat Kanye West	Birthday Song	Abc
2 Chainz Feat Nicki Minaj	I Love Dem Strippers	Abc
2 Chainz ft Chris Brown	Countdown	Abc
2 Evisa	Oh La La La	Abc
2 In A Room	Wiggle It	Abc
2 Live Crew	Doo Wah Diddy	Abc
	Me So Horny	Abc
2 Pistols & Ray J	You Know Me	Abc

Now, I have to create a search bar. I just a parameter that accepts all string values

Edit Parameter [Search Bar]

Name

Search Bar

Properties

Data type

String

Display format

Current value

Value when workbook opens

Current value

Allowable values

☒ All ☐ List ☐ Range

Cancel

OK

Next, I need a filter. I need it to accept my parameter values and return data in the artist and song columns that match.

Search Bar

CONTAINS([Artist],[Parameters].[Search Bar])
OR
CONTAINS([Song],[Parameters].[Search Bar])

The calculation is valid.

2 Dependencies

Apply

OK

Song List

Artist	Song	
Doors	Break on Through	Abc

Search Bar

It works!!

Final result

I put it in phone view because most patrons would be on their phones when they search for this information. I got rid of the annoying placeholder column by putting songs as a text mark and hiding the column header.

Search Bar

Song List

Artist

Beatles

Lucy in the Sky with Diamonds
Maggie Mae
Magical Mystery Tour
Martha My Dear
Matchbox
Maxwell's Silver Hammer
Michelle
Misery
Money
Mother Nature's Son
Mr Moonlight
No Reply
Norwegian Wood
Not A Second Time
Nowhere Man
Ob La Di, Ob La Da
Octopus Garden
Oh Darling
Old Brown Shoe
One After 909
Paperback Writer
Penny Lane
Piggies