DJs create playlists. A playlist is 'one radio show'.

playlist	Format	Default
id	PRIMARY KEY int NOT NULL	·0·
user_id	KEY int	NULL
air_name	varchar(30)	NULL
start_time	KEY datetime	NULL
end_time	datetime	NULL

Playlists are comprised of tracks.

playlist_track	Format	Default
playlist_id	KEY int NOT NULL	'0'
indx	int	NULL
is_current	char(1)	NULL
artist	varchar(60)	NULL
track_title	varchar(60)	NULL
album_title	varchar(60)	NULL
album_id	KEY int	NULL
album_label	varchar(60)	NULL
time_played	datetime	NULL





When an album is a compilation, we denote the artist.

coll_track	Format	Default
album_id	KEY int NOT NULL	'0'
title	varchar(60)	NULL
artist	FULLTEXT KEY varchar(60)	NULL
indx	int	NULL
clean	char(1) NOT NULL	'0'

KFJC Station Data is a read-only resource. The architecture and format are not my option to change. This source is used solely for question creation.

I think it will take one SQL Alchemy Class for each database because of the different types. Python will serve as the go-between for question formation and gameplay.

Each user may answer several questions

users		Default
id	PRIMARY KEY int NOT NULL, AUTO INCREMENT	'0'
email	varchar(320). A unique identifier for each user. We will never email you.	NULL
fname	varchar(30). To address player personally. Not collecting last name for privacy reasons.	NULL
password	varchar, See https://blog.codinghorror.com/youre-probably-storing-passwords-incorrectiy/ about storing passwords as a hash.	NULL
salt	varchar, "The point of a salt (or nonce, if you prefer) is to make each password unique and long enough that brute force attacks are a waste of time. So, the user's password, instead of being stored as the hash of "myspace1", ends up being stored as the hash of 128 characters of random unicode string + "myspace1", You're now completely immune to rainbow table attack."	NULL

	user_answers	Format	Default
	id	PRIMARY KEY int NOT NULL, AUTO INCREMENT	' 0'
1	user_id	int	NULL
٠	question_id	int	NULL
	answer_given	text	NULL
	timestamp	datetime	'0000-00-00'

questions		Default
id	PRIMARY KEY INT NOT NULL, AUTO INCREMENT	'0'
question	text	NULL

Each question has one or more acceptable answers (Such as "Name a track from this album")

	correct_answers	Format	Default
	id	PRIMARY KEY int NOT NULL, AUTO INCREMENT	'0'
-	question_id	int	NULL
	acceptable_answers	text[]	NULL



postgreSQL

Derived Quantities

Derived Quantity	Pseudocode
User Score on one question	PASS: user_answers.answer_given IN correct_answers.acceptable_answers FAIL: user_answers.answer_given NOT IN correct_answers.acceptable_answers SKIP: user_answers.answer_given IS NULL
User Stats	user_percent_correct = SUM(PASS) * 100 / (SUM(PASS) + SUM(FAIL)) Players may skip a question without penalty.
User Rank	Max to min of user_percent_correct.
Member Since	The smallest timestamp in user_answers is our record of the first time the user played.