# A West Coast Swing Database for Deejays

Joey Nelson

CIS 451 Database Processing

Fall, 2015 - Chris Wilson

12/7/2015

# Table of contents

*URL ----------------------------------------------------------------------------------------- 3*

*Summary ----------------------------------------------------------------------------------- 3*

*Logical Design ----------------------------------------------------------------------------- 4*

*List of Applications------------------------------------------------------------------------ 4*

*User’s Guide ------------------------------------------------------------------------------- 5*

*Contents of Tables ------------------------------------------------------------------------- 5*

*Implementation code ---------------------------------------------------------------------- 15*

*Conclusion - -------------------------------------------------------------------------------- 24*

## URL

### Project Repository:

[*https://bitbucket.org/joenelsong/wcs\_dj\_db/overview*](https://bitbucket.org/joenelsong/wcs_dj_db/overview)

* *Access was made private so no one deletes my final project. But as you see below I’ve forwarded you both access.*



### Web Application:

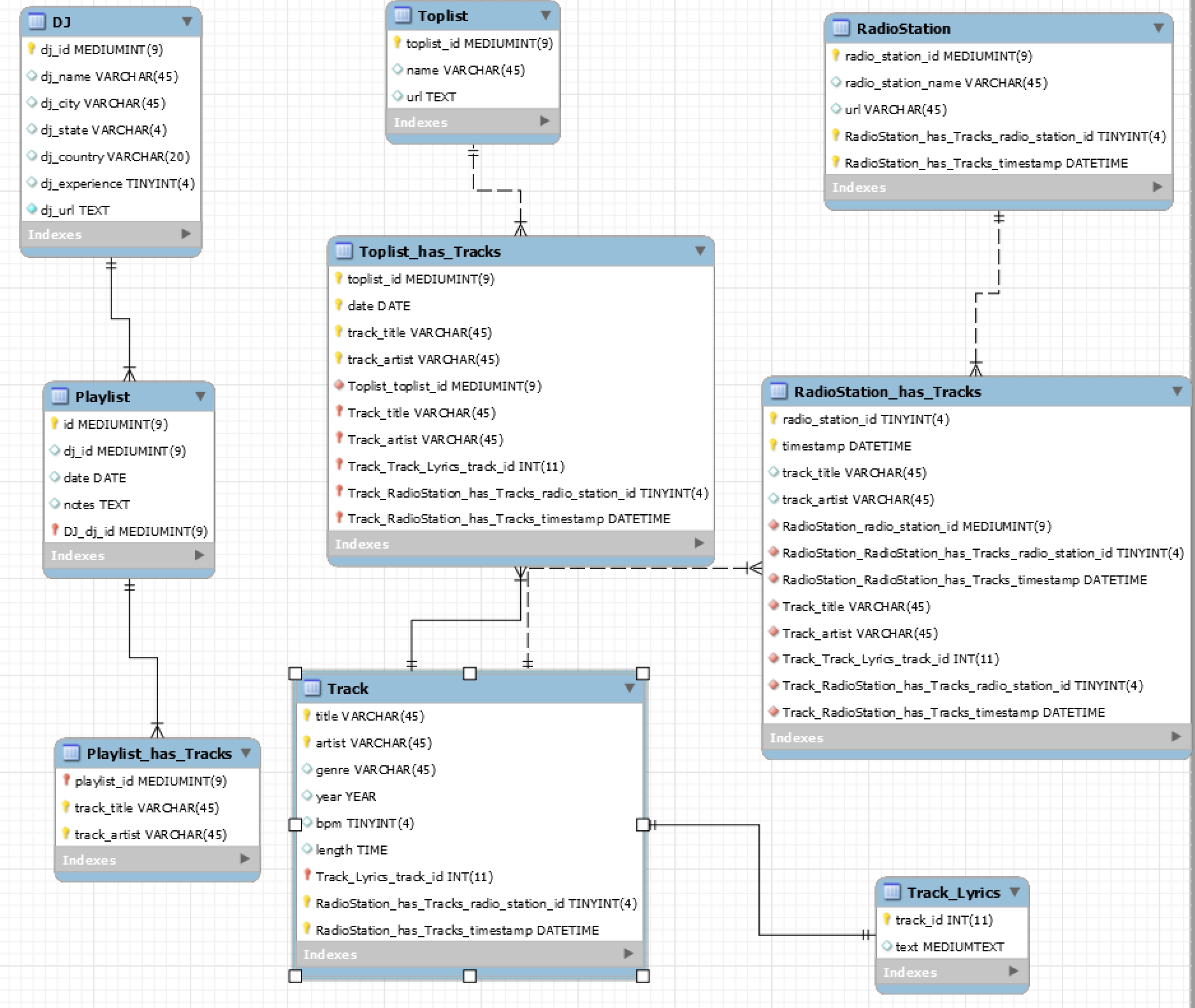
<http://ix.cs.uoregon.edu/~jnelson/wcs_dj_db/db.html>

## Summary

This database is modelling the world of West Coast Swing (WCS) deejays. It contains music track information and the sources they come from. Basically there is a deejay for any WCS event, including weekly social dances all around the world. The community has gotten to large that there exists a lot of information online to check out popular songs for this genre of dance. This genre of dance includes many musical genres, even too many to list, but essentially anything with a 4/4 time signature and of a certain tempo is WCS appropriate. But deejays want to please their dancers, so they want to have as many tools as they can for selecting the best tracks in the best order for their setlist.

## Logical Design

* MySQLWorkbench was forcing me to have all these extra keys, so it looks like there are duplicate keys for this model, but they only exist for this picture.



## List of Applications

1. Discovering new music as a Deejay or Dancer
2. Intelligently designing your set lists as a Deejay
3. A database allows power users to automatically collect and share data
4. This allows deejays to analyze track information (bpm, length, genre, artists, etc.)
5. Ideally the user would be able to create custom weighted queries to more heavily weight various attributes, including which deejays have posted or “liked” the song, which event it came from, if it’s also on a top 10 list, if it’s played on various WCS radio stations etc.
6. Allows deejays to register and get noticed by others

The applications are designed to be versatile, but the most used table would be the Track table where all of the meta data is stored for each Track.

## User’s Guide

Right now if you are a deejay you can register with the database and provide information necessary so I can start tracking you and automatically updating your information. Also you can click a few standard features, such as “View Most Popular WCS Artist” and “View Min, Max, Avg tempo of WCS Music”.

## Contents of tables

### DJ:

|  |
| --- |
| dj\_id;"dj\_name";"dj\_city";"dj\_state";"dj\_country";"dj\_experience";"dj\_url" |
| 1;"Joey Nelson";"Eugene";"OR";"USA";2;"" |
| 2;"DJ KOICHI";"Portland";"OR";"USA";0;"https://www.facebook.com/dj.koichi/?fref=ts" |
| 3;"Chris";"Portland";"OR";"USA";0;"https://www.facebook.com/ChrisJonesDeeJay/?fref=ts" |
| 4;"Will Shaver";"Eugene";"OR";"USA";0;"https://www.facebook.com/DJ-Will-Shaver-236080736448597/?fref=ts" |
| 59;"cwilly";"";"";"";0;"" |

### Playlist:

|  |  |  |
| --- | --- | --- |
| id;"dj\_id";"date";"notes" | | |
| 1;2;"2015-07-28";"Event: Dancing Till Dusk | Portland | OR" |
| 2;1;"2015-10-27";"Event: UOWCSDC | Eugene | OR" |
| 3;1;"2015-11-17";"Event: UOWCSDC | Eugene | OR" |
| 4;1;"2015-11-24";"Event: UOWCSDC | Eugene | OR" |
| 5;1;"2015-11-09";"Event: ESDC | Eugene | OR" |

### Playlist\_has\_Tracks

|  |
| --- |
| playlist\_id;"track\_title";"track\_artist" |
| 1;"All Hands On Deck";"Tinashe" |
| 1;"Beautiful";"Mali Music" |
| 1;"Because of You";"Ne-Yo" |
| 1;"Blank Space";"Taylor Swift" |
| 1;"Can't Feel My Face";"The Weeknd" |
| 1;"Don't";"Ed Sheeran" |
| 1;"Down In the Valley";"Otis Redding" |
| 1;"Fancy (feat. Charli XCX)";"Iggy Azalea" |
| 1;"Fast Car (Prod by J.R Rotem)";"Ilya" |
| 1;"FourFiveSeconds";"Rihanna and Kanye West and Paul McCartney" |
| 1;"Freedom";"Akon" |
| 1;"Get Lucky (Radio Edit) [feat. Pharrell Willia";"Daft Punk" |
| 1;"Hazey";"Glass Animals" |
| 1;"How Do I Breathe";"Mario" |
| 1;"In the Dark";"Charlie Puth" |
| 1;"Let Me Blow Ya Mind";"Eve" |
| 1;"Let's Stay Together";"Al Green" |
| 1;"Love Me Like You Do (From ""Fifty Shades Of Gr";"Ellie Goulding" |
| 1;"Missing You";"Betty Who" |
| 1;"Nobody's Business (feat. Chris Brown)";"Rihanna" |
| 1;"Not For Long (feat. Trey Songz)";"B.o.B" |
| 1;"SexyBack";"Justin Timberlake" |
| 1;"Shoop";"Salt-n-Pepa" |
| 1;"Shots";"Imagine Dragons" |
| 1;"Some Nights";"Fun." |
| 1;"Some Type of Love";"Charlie Puth" |
| 1;"Style";"Taylor Swift" |
| 1;"Thrift Shop (feat. Wanz)";"Macklemore & Ryan Lewis" |
| 1;"Time of Our Lives";"Pitbull & Ne-Yo" |
| 1;"Treasure";"Bruno Mars" |
| 1;"Uptown Funk (feat. Bruno Mars)";"Mark Ronson" |
| 1;"Why Did You Lie to Me";"Bryan Lee" |
| 1;"Worth It (feat. Kid Ink)";"Fifth Harmony" |

### RadioStation

|  |
| --- |
| radio\_station\_id;"radio\_station\_name";"url" |
| 1;"RadioWCS";"http://radiowcs.com/" |

### RadioStation\_has\_Tracks

|  |  |
| --- | --- |
| radio\_station\_id;"timestamp";"track\_title";"track\_artist" | |
| 1;"2015-12-07 14:59:53";"Alvas Baby Blues";"RAY SHARPE" | |
| 1;"2015-12-07 15:03:15";"Avalanche";"CHRISTOPHER" | |
| 1;"2015-12-07 15:07:03";"Bye Baby";"DANITY KANE" | |
| 1;"2015-12-07 15:10:41";"Demons";"IMAGINE DRAGONS" | |
| 1;"2015-12-07 15:13:36";"I See Fire (Kygo Remix)";"ED SHEERAN" | |
| 1;"2015-12-07 15:18:51";"Loving You Tonight";"ANDREW ALLEN" | |
| 1;"2015-12-07 15:21:45";"Body Language (Feat. Usher & Tinashe)";"KID INK" | |
| 1;"2015-12-07 15:25:10";"Stitched Up (Feat. John Mayer)";"HERBIE HANCOCK" | |
| 1;"2015-12-07 15:30:10";"Set Me Free";"EBRU" | |
| 1;"2015-12-07 15:33:27";"Try";"PINK" | |
| 1;"2015-12-07 15:37:33";"Intentions";"WHITEST BOY ALIVE" | |
| 1;"2015-12-07 15:41:09";"Sunday Morning";"MAROON 5" | |
| 1;"2015-12-07 15:45:05";"Feelin Single";"R. KELLY" | |
| 1;"2015-12-07 15:48:32";"Swing By My Way (Feat. John Legend)";"WILL.I.AM" | |
| 1;"2015-12-07 15:52:20";"Love Is The Answer";"ALOE BLACC" | |
| 1;"2015-12-07 15:56:03";"Cause I Love You";"MIKE MORGAN & THE CRAWL" | |
| 1;"2015-12-07 16:00:31";"Love Me Harder (Feat. The Weeknd)";"ARIANA GRANDE" | |
| 1;"2015-12-07 16:04:24";"She Wolf";"SHAKIRA" | |
| 1;"2015-12-07 16:07:27";"Comeback";"JOSH ROUSE" | |
| 1;"2015-12-07 16:12:03";"Respect Yourself";"STAPLE SINGERS" | |
| 1;"2015-12-07 16:15:30";"Sugar";"MAROON 5" | |
| 1;"2015-12-07 16:19:23";"Coyotes";"JASON MRAZ" | |
| 1;"2015-12-07 16:22:55";"The Heart Wants What It Wants";"SELENA GOMEZ" | |
| 1;"2015-12-07 16:26:43";"Mad";"ANTHONY HAMILTON" | |
| 1;"2015-12-07 16:30:09";"Knock On Wood";"EDDIE FLOYD" | |
| 1;"2015-12-07 16:33:11";"Fearless Blues";"ANA POPOVIC" | |
| 1;"2015-12-07 16:36:22";"Free Fallin'";"JOHN MAYER" | |
| 1;"2015-12-07 16:40:23";"Bloodstream";"ED SHEERAN" | |
| 1;"2015-12-07 16:45:05";"Ode To Billie Joe";"TOM SCOTT" | |
| 1;"2015-12-07 16:50:34";"My Baby";"KACI BROWN" | |
| 1;"2015-12-07 16:54:21";"Jealous";"NICK JONAS" | |
| 1;"2015-12-07 16:58:00";"Uptown Funk (Feat. Bruno Mars)";"MARK RONSON" | |
| 1;"2015-12-07 17:02:01";"Springsteen";"ERIC CHURCH" | |
| 1;"2015-12-07 17:06:21";"I'm Not the Only One";"SAM SMITH" | |
| 1;"2015-12-07 17:10:18";"Heartbreak Warfare";"JOHN MAYER" | |
| 1;"2015-12-07 17:14:45";"Sexy Love";"NE-YO" | |
| 1;"2015-12-07 17:18:23";"Q's Blues";"ROOMFUL OF BLUES" | |
| 1;"2015-12-07 17:22:52";"Down In The Valley";"OTIS REDDING" | |
| 1;"2015-12-07 17:25:48";"Baby be mine";"TRIJNTJE OOSTERHUIS" | |
| 1;"2015-12-07 17:30:28";"The Joker";"STEVE MILLER BAND" | |
| 1;"2015-12-07 17:34:02";"Scream";"USHER" | |
| 1;"2015-12-07 17:37:55";"Missing You";"BETTY WHO" | |
| 1;"2015-12-07 17:41:20";"Just Like Music (Feat. Marvin Gaye)";"ERICK SERMON" | |
| 1;"2015-12-07 17:45:13";"Take Your Time";"SAM HUNT" | |
| 1;"2015-12-07 17:49:14";"Kangaroo Court";"CAPITAL CITIES" | |
| 1;"2015-12-07 17:52:54";"Earned It";"THE WEEKND" | |
| 1;"2015-12-07 17:57:03";"Secret";"MAROON 5" | |
| 1;"2015-12-07 18:01:05";"Last Time";"CODY KAHMAR" | |
| 1;"2015-12-07 18:04:35";"Crazy";"SEAL" | |
| 1;"2015-12-07 18:08:33";"Friends (Feat. Rock Mafia)";"AURA DIONE" | |
| 1;"2015-12-07 18:12:10";"A Night to Remember";"MARY J. BLIGE" | |
| 1;"2015-12-07 18:16:22";"Better Without You";"RHIAN BENSON" | |
| 1;"2015-12-07 18:19:44";"Trouble";"NE-YO" | |
| 1;"2015-12-07 18:22:49";"Sweet Memory";"MELODY GARDOT" | |
| 1;"2015-12-07 18:26:10";"You Got It";"LUCAS GRABEEL" | |
| 1;"2015-12-07 18:30:44";"Ring Ring Ring";"DE LA SOUL" | |
| 1;"2015-12-07 18:34:48";"Blue Stew";"KENNY NEAL" | |
| 1;"2015-12-07 18:38:19";"Sugar";"KARMIN" | |
| 1;"2015-12-07 18:41:44";"Finally Moving";"PRETTY LIGHTS" | |
| 1;"2015-12-07 18:46:15";"Sing";"ED SHEERAN" | |
| 1;"2015-12-07 18:50:08";"Bang Bang (Feat. Jessie J & Nicki Minaj)";"ARIANA GRANDE" | |
| 1;"2015-12-07 18:53:21";"Let's Take A Walk";"RAPHAEL SAADIQ" | |
| 1;"2015-12-07 19:05:42";"Give Me One Reason";"TRACY CHAPMAN" | |
| 1;"2015-12-07 19:10:05";"Lovely day";"BILL WITHERS" | |
| 1;"2015-12-07 19:14:07";"Bourbon Street Blues";"CHRIS THOMAS KING" | |
| 1;"2015-12-07 19:17:52";"Junior Parker";"JEAN-JACQUES MILTEAU" | |
| 1;"2015-12-07 19:22:26";"Sweet Sixteen";"JUNIOR WELLS" | |
| 1;"2015-12-07 19:27:10";"Chain Reaction";"ERIC BIBB" | |
| 1;"2015-12-07 19:30:30";"How To Love";"LIL WAYNE" | |
| 1;"2015-12-07 19:34:25";"Sugar";"MAROON 5" | |
| 1;"2015-12-07 19:38:18";"Alone";"SELAH SUE" | |
| 1;"2015-12-07 19:41:56";"Rappers Delight";"SUGARHILL GANG" | |
| 1;"2015-12-07 19:46:22";"Just the two of us";"BILL WITHERS" | |
| 1;"2015-12-07 19:50:17";"Habits";"TOVE LO" | |
| 1;"2015-12-07 19:53:40";"I Got All You Need";"JOE BONAMASSA" | |
| 1;"2015-12-07 19:56:41";"Ayo (Feat. Tyga)";"CHRIS BROWN" | |
| 1;"2015-12-07 20:00:07";"i";"KENDRICK LAMAR" | |
| 1;"2015-12-07 20:03:53";"Close Your Eyes";"LILY ALLEN" | |
| 1;"2015-12-07 20:07:28";"Affection";"OPHELIE WINTER" | |
| 1;"2015-12-07 20:10:08";"Fire That Burns";"ANDY LAYFIELD" | |
| 1;"2015-12-07 20:13:58";"Team";"LORDE" | |
| 1;"2015-12-07 20:17:09";"Something Like Olivia";"JOHN MAYER" | |
| 1;"2015-12-07 20:19:58";"Like father | Like son";"CHRIS THOMAS KING" |
| 1;"2015-12-07 20:23:59";"Walk On the Wild Side";"KENDRA MORRIS" | |
| 1;"2015-12-07 20:28:07";"Love and happiness";"AL GREEN" | |
| 1;"2015-12-07 20:32:37";"Sexy Plexi";"JACK JOHNSON" | |
| 1;"2015-12-07 20:34:42";"She Will Be Loved";"MAROON 5" | |
| 1;"2015-12-07 20:38:58";"Talk Dirty (Feat. 2 Chainz)";"JASON DERULO" | |
| 1;"2015-12-07 20:41:53";"The Thrill Is Gone";"BB KING" | |
| 1;"2015-12-07 20:45:37";"The Heart Wants What It Wants";"SELENA GOMEZ" | |
| 1;"2015-12-07 20:49:26";"Bad";"THE CAB" | |
| 1;"2015-12-07 20:52:42";"Diamonds";"RIHANNA" | |
| 1;"2015-12-07 20:56:25";"Move";"LITTLE MIX" | |
| 1;"2015-12-07 21:00:06";"Latch (Feat. Sam Smith)";"DISCLOSURE" | |
| 1;"2015-12-07 21:04:21";"Last Friday Night (T.G.I.F.)";"KATY PERRY" | |
| 1;"2015-12-07 21:08:09";"Booty Music";"GIT FRESH" | |
| 1;"2015-12-07 21:11:15";"Cool Kids";"ECHOSMITH" | |
| 1;"2015-12-07 21:15:11";"Magic";"ROBIN THICKE" | |
| 1;"2015-12-07 21:18:40";"Missing You";"BETTY WHO" | |
| 1;"2015-12-07 21:22:05";"Control Freak (Feat. Blaqstarr & Kay)";"STEVE AOKI" | |
| 1;"2015-12-07 21:25:39";"Jealous";"NICK JONAS" | |
| 1;"2015-12-07 21:29:18";"Fireflies";"OWL CITY" | |
| 1;"2015-12-07 21:33:04";"You and I";"JOHN LEGEND" | |
| 1;"2015-12-07 21:37:14";"I Got The Blues";"BROTHER YUSEF" | |
| 1;"2015-12-07 21:41:04";"Your Love";"NICKI MINAJ" | |
| 1;"2015-12-07 21:45:06";"Black Coffee and Cigarettes";"MIGHTY MO RODGERS" | |
| 1;"2015-12-07 21:48:45";"For What It's Worth";"BUFFALO SPRINGFIELD" | |
| 1;"2015-12-07 21:51:23";"Do Your Thing";"STEFANIE HEINZMANN" | |
| 1;"2015-12-07 21:53:46";"Your Body Is a Wonderland";"JOHN MAYER" | |
| 1;"2015-12-07 21:57:53";"On Fire";"JJ GREY & MOFRO" | |
| 1;"2015-12-07 22:02:17";"Scream & Shout (Feat. Britney Spears)";"WILL.I.AM" | |
| 1;"2015-12-07 22:07:00";"Take Your Time";"SAM HUNT" | |
| 1;"2015-12-07 22:11:00";"Dedication to My Ex";"LLOYD" | |
| 1;"2015-12-07 22:14:55";"Sugar";"KARMIN" | |
| 1;"2015-12-07 22:18:19";"Boyfriend";"JUSTIN BIEBER" | |
| 1;"2015-12-07 22:21:02";"It Was Always You";"MAROON 5" | |
| 1;"2015-12-07 22:25:00";"Just The Way You Are";"BRUNO MARS" | |
| 1;"2015-12-07 22:28:35";"The Dock Of The Bay";"AARON NEVILLE" | |
| 1;"2015-12-07 22:32:59";"Grandma's Hands";"BILL WITHERS" | |
| 1;"2015-12-07 22:34:55";"Uptown Funk (Feat. Bruno Mars)";"MARK RONSON" | |
| 1;"2015-12-07 22:38:57";"Forever";"CHRIS BROWN" | |
| 1;"2015-12-07 22:43:32";"Earned It";"THE WEEKND" | |

### Toplist

|  |
| --- |
| toplist\_id;"name";"url" |
| 1;"Global Swing DJs";"http://www.globalswingdjs.com/songs-pages/2015-11.php" |
| 2;"RadioWCS\_Hot20";"http://radiowcs.com/hot.php" |

### Toplist\_has\_Tracks

|  |  |  |
| --- | --- | --- |
| toplist\_id;"date";"track\_title";"track\_artist" | | |
| 1;"2015-05-01";"I Don't Mind ";" Angela Johnson" | | |
| 1;"2015-08-01";"Dirty Work ";" Austin Mahone" | | |
| 1;"2015-09-01";"Dirty Work ";" Austin Mahone" | | |
| 1;"2015-07-01";"Not For Long ";" B.O.B. Ft Trey Songz" | | |
| 1;"2015-07-01";"Beggin For Thread ";" Banks" | | |
| 1;"2015-05-01";"Dangerous (Oliver Remix) ";" Big Data" | | |
| 1;"2015-07-01";"Dangerous (Oliver Remix) ";" Big Data" | | |
| 1;"2015-03-01";"Twerk It Like Miley ";" Brandon Beal" | | |
| 1;"2015-01-01";"Dark Side of Love ";" Calvin Richardson" | | |
| 1;"2015-06-01";"Some Type of Love ";" Charlie Puth" | | |
| 1;"2015-08-01";"One Call Away ";" Charlie Puth" | | |
| 1;"2015-02-01";"Marvin Gaye ";" Charlie Puth Ft Meghan Trainor" | | |
| 1;"2015-05-01";"Marvin Gaye ";" Charlie Puth Ft Meghan Trainor" | | |
| 1;"2015-01-01";"Sugar Honey Ice Tea ";" Charlie Wilson" | | |
| 1;"2015-02-01";"Sugar Honey Ice Tea ";" Charlie Wilson" | | |
| 1;"2015-07-01";"Sugar Honey Ice Tea ";" Charlie Wilson" | | |
| 1;"2015-02-01";"Infectious ";" Charlie Wilson Ft Snoop Dogg" | | |
| 1;"2015-01-01";"Velvet ";" Chris Jamison" | | |
| 1;"2015-02-01";"Velvet ";" Chris Jamison" | | |
| 1;"2015-03-01";"Velvet ";" Chris Jamison" | | |
| 1;"2015-07-01";"Christine ";" Christine & The Queens" | | |
| 1;"2015-10-01";"Tilted ";" Christine and the Queens" | | |
| 1;"2015-05-01";"Kiss & Tell ";" Ciara" | | |
| 1;"2015-06-01";"Dance Like We're Making Love ";" Ciara" | | |
| 1;"2015-06-01";"Kiss & Tell ";" Ciara" | | |
| 1;"2015-07-01";"Yeah I Know ";" Ciara" | | |
| 1;"2015-07-01";"Five More Hours ";" Deorro & Chris Brown" | | |
| 1;"2015-08-01";"Omen ";" Disclosure Ft Sam Smith" | | |
| 1;"2015-09-01";"Omen ";" Disclosure Ft Sam Smith" | | |
| 1;"2015-06-01";"Photograph ";" Ed Sheeran" | | |
| 1;"2015-01-01";"Love Me Like You Do ";" Ellie Goulding" | | |
| 1;"2015-02-01";"Love me Like You Do ";" Ellie Goulding" | | |
| 1;"2015-05-01";"Worth It ";" Fifth Harmony Ft Kid Ink" | | |
| 1;"2015-04-01";"I Don't Like It | I Love It ";" Flo Rida Ft Robin Thicke" | |
| 1;"2015-10-01";"Lights ";" Hurts" | | |
| 1;"2015-04-01";"Trouble ";" Iggy Azalea Ft Jennifer Hudson" | | |
| 1;"2015-02-01";"Diggy Down ";" Inna Ft Marian Hill" | | |
| 1;"2015-06-01";"No Sleeep ";" Janet Jackson" | | |
| 1;"2015-10-01";"No Sleeep ";" Janet Jackson" | | |
| 1;"2015-09-01";"Adore ";" Jasmine Thompson" | | |
| 1;"2015-03-01";"Want To Want Me ";" Jason DeRulo" | | |
| 1;"2015-04-01";"Get Ugly (Clean) ";" Jason DeRulo" | | |
| 1;"2015-04-01";"Want To Want Me ";" Jason DeRulo" | | |
| 1;"2015-05-01";"Get Ugly (Clean) ";" Jason DeRulo" | | |
| 1;"2015-05-01";"Want To Want Me ";" Jason DeRulo" | | |
| 1;"2015-06-01";"Broke Ft Stevie Wonder & Keith Urban ";" Jason DeRulo" | | |
| 1;"2015-06-01";"Try Me ";" Jason DeRulo" | | |
| 1;"2015-07-01";"Try Me ";" Jason DeRulo Ft Jlo" | | |
| 1;"2015-09-01";"Try Me ";" Jason DeRulo ft. Jennifer Lopez" | | |
| 1;"2015-06-01";"Sorry to Interrupt ";" Jessie J | Jhene Aiko | Rixton" |
| 1;"2015-09-01";"What Do You Mean ";" Justin Bieber" | | |
| 1;"2015-05-01";"Take Me To The River ";" Kaleida" | | |
| 1;"2015-08-01";"Take Me To The River ";" Kaleida" | | |
| 1;"2015-04-01";"Give Me One Reason ";" Kelly Clarkson" | | |
| 1;"2015-05-01";"Cut Your Teeth (Kygo Remix) ";" Kyla LaGrange and Kygo" | | |
| 1;"2015-10-01";"Tired Of Talking ";" Leon" | | |
| 1;"2015-09-01";"Downtown ";" Macklemore & Ryan Lewis" | | |
| 1;"2015-09-01";"Don't Worry ";" Madcon" | | |
| 1;"2015-01-01";"Uptown Funk ";" Mark Ronson Ft Bruno Mars" | | |
| 1;"2015-03-01";"Uptown Funk ";" Mark Ronson Ft Bruno Mars" | | |
| 1;"2015-01-01";"Sugar ";" Maroon 5" | | |
| 1;"2015-10-01";"Catch & Release (Deepend rmx) ";" Matt Simons" | | |
| 1;"2015-01-01";"Waves (Robin Shulz Radio Edit) ";" Mr Probz" | | |
| 1;"2015-03-01";"Somebody ";" Natalie La Rose" | | |
| 1;"2015-01-01";"Somebody ";" Natalie La Rose Ft Jeremih" | | |
| 1;"2015-02-01";"Somebody ";" Natalie La Rose Ft Jeremih" | | |
| 1;"2015-03-01";"Body On You ";" Ne-Yo" | | |
| 1;"2015-03-01";"Chains ";" Nick Jonas" | | |
| 1;"2015-08-01";"Levels ";" Nick Jonas" | | |
| 1;"2015-10-01";"Kiss Me ";" Olly Murs" | | |
| 1;"2015-04-01";"I Woke Up ";" One-T" | | |
| 1;"2015-09-01";"Can't Sleep Love ";" Pentatonix" | | |
| 1;"2015-10-01";"Can't Sleep Love ";" Pentatonix" | | |
| 1;"2015-02-01";"Time of Our Lives ";" Pitbull Ft Ne-Yo" | | |
| 1;"2015-02-01";"Stuck On A Feeling ";" Prince Royce" | | |
| 1;"2015-07-01";"Extraordinary ";" Prince Royce" | | |
| 1;"2015-08-01";"Clothes Off ";" Ria Mae" | | |
| 1;"2015-09-01";"Body On Me ";" Rita Ora" | | |
| 1;"2015-08-01";"Body On Me ";" Rita Ora & Chris Brown" | | |
| 1;"2015-08-01";"Back Together ";" Robin Thicke Ft Nicki Minaj" | | |
| 1;"2015-06-01";"Good For You ";" Selena Gomez" | | |
| 1;"2015-10-01";"Me & The Rhythm ";" Selena Gomez" | | |
| 1;"2015-04-01";"BackFunkLoveSoul ";" Seven" | | |
| 1;"2015-04-01";"Peaches n Cream ";" Snoop Dogg ft Charlie Wilson" | | |
| 1;"2015-03-01";"Fade Out Lines ";" The Avener" | | |
| 1;"2015-06-01";"Can't Feel My Face ";" The Weeknd" | | |
| 1;"2015-07-01";"Can't Feel My Face ";" The Weeknd" | | |
| 1;"2015-08-01";"Can't Feel My Face ";" The Weeknd" | | |
| 1;"2015-10-01";"I Feel Good ";" Thomas Rhett" | | |
| 1;"2015-01-01";"All Hands on Deck ";" Tinashe" | | |
| 1;"2015-03-01";"Nobody Love ";" Tori Kelly" | | |
| 1;"2015-04-01";"Talking Body ";" Tove Lo" | | |
| 1;"2015-01-01";"I Don't Mind ";" Usher" | | |
| 1;"2015-02-01";"I Don't Mind (Clean) ";" Usher Ft Juicy J" | | |
| 1;"2015-03-01";"Goodbye ";" Who Is Fancy" | | |
| 1;"2015-04-01";"Goodbye ";" Who Is Fancy" | | |
| 1;"2015-05-01";"Goodbye ";" Who Is Fancy" | | |
| 1;"2015-11-00";"Focus";"Ariana Grande" | | |
| 1;"2015-11-00";"One Call Away";"Charlie Puth" | | |
| 1;"2015-10-01";"Magnets";"Disclosure Ft Lorde" | | |
| 1;"2015-11-00";"Magnets";"Disclosure Ft Lorde" | | |
| 1;"2015-11-00";"Cake By The Ocean";"Dnce" | | |
| 1;"2015-11-00";"Wasn't Expecting That";"Jamie Lawson" | | |
| 1;"2015-11-00";"Catch & Release (Deepend Remix)";"Matt Simons" | | |
| 1;"2015-11-00";"Can't Sleep Love";"Pentatonix" | | |
| 1;"2015-11-00";"Lay It All On Me";"Rudimental Ft Ed Sheeran" | | |
| 1;"2015-11-00";"Same Old Love";"Selena Gomez" | | |
| 1;"2015-11-00";"Fire";"Tessanne Chin" | | |

### Track

|  |
| --- |
| title;"artist";"genre";"year";"bpm";"length" |
| A Night to Remember;"MARY J. BLIGE";"R&B";"0000";109;"00:00:00" |
| Affection;"OPHELIE WINTER";"Pop";"0000";107;"00:00:00" |
| All Hands On Deck;"Tinashe";"";"2014";0;"00:00:00" |
| Alone;"SELAH SUE";"R&B";"0000";100;"00:00:00" |
| Ayo (Feat. Tyga);"CHRIS BROWN";"R&B";"0000";84;"00:00:00" |
| Baby be mine;"TRIJNTJE OOSTERHUIS";"Jazz";"0000";110;"00:00:00" |
| Bad;"THE CAB";"Rock";"0000";100;"00:00:00" |
| Bang Bang (Feat. Jessie J & Nicki Minaj);"ARIANA GRANDE";"Pop";"0000";75;"00:00:00" |
| Beautiful;"Mali Music";"";"2014";0;"00:00:00" |
| Because of You;"Ne-Yo";"";"2007";0;"00:00:00" |
| Better Without You;"RHIAN BENSON";"R&B";"0000";105;"00:00:00" |
| Black Coffee and Cigarettes;"MIGHTY MO RODGERS";"Blues";"0000";110;"00:00:00" |
| Blank Space;"Taylor Swift";"";"2014";0;"00:00:00" |
| Bloodstream;"ED SHEERAN";"Pop";"0000";91;"00:00:00" |
| Blue Stew;"KENNY NEAL";"";"0000";0;"00:00:00" |
| Booty Music;"GIT FRESH";"R&B";"0000";120;"00:00:00" |
| Bourbon Street Blues;"CHRIS THOMAS KING";"Blues";"0000";94;"00:00:00" |
| Boyfriend;"JUSTIN BIEBER";"Pop";"0000";97;"00:00:00" |
| Cake By The Ocean;"Dnce";"electronic";"2015";94;"00:04:17" |
| Can't Feel My Face;"The Weeknd";"";"2015";0;"00:00:00" |
| Can't Sleep Love;"Pentatonix";"rock";"2015";94;"00:03:43" |
| Catch & Release (Deepend Remix);"Matt Simons";"chillout";"2015";105;"00:03:15" |
| Cause I Love You;"MIKE MORGAN & THE CRAWL";"Blues";"0000";112;"00:00:00" |
| Chain Reaction;"ERIC BIBB";"Blues";"0000";93;"00:00:00" |
| Close Your Eyes;"LILY ALLEN";"Pop";"0000";87;"00:00:00" |
| Comeback;"JOSH ROUSE";"Pop";"0000";118;"00:00:00" |
| Control Freak (Feat. Blaqstarr & Kay);"STEVE AOKI";"R&B";"0000";118;"00:00:00" |
| Cool Kids;"ECHOSMITH";"Pop";"0000";127;"00:00:00" |
| Coyotes;"JASON MRAZ";"Pop";"0000";100;"00:00:00" |
| Crazy;"SEAL";"Pop";"0000";0;"00:00:00" |
| Dangerous (Oliver Remix);"Big Data";"electronic";"2014";110;"00:04:38" |
| Dedication to My Ex;"LLOYD";"R&B";"0000";119;"00:00:00" |
| Diamonds;"RIHANNA";"Pop";"0000";92;"00:00:00" |
| Do Your Thing;"STEFANIE HEINZMANN";"Pop";"0000";100;"00:00:00" |
| Don't;"Ed Sheeran";"";"2014";0;"00:00:00" |
| Down In the Valley;"Otis Redding";"";"1966";0;"00:00:00" |
| Earned It;"THE WEEKND";"R&B";"0000";60;"00:00:00" |
| Fancy (feat. Charli XCX);"Iggy Azalea";"";"2014";0;"00:00:00" |
| Fast Car (Prod by J.R Rotem);"Ilya";"";"0000";0;"00:00:00" |
| Fearless Blues;"ANA POPOVIC";"Blues";"0000";105;"00:00:00" |
| Finally Moving;"PRETTY LIGHTS";"Jazz";"0000";100;"00:00:00" |
| Fire;"Tessanne Chin";"Ska";"2012";121;"00:03:20" |
| Fire That Burns;"ANDY LAYFIELD";"Blues";"0000";108;"00:00:00" |
| Fireflies;"OWL CITY";"Electronic";"0000";90;"00:00:00" |
| Focus;"Ariana Grande";"";"2015";99;"00:03:31" |
| For What It's Worth;"BUFFALO SPRINGFIELD";"Soul";"0000";99;"00:00:00" |
| Forever;"CHRIS BROWN";"R&B";"0000";120;"00:00:00" |
| FourFiveSeconds;"Rihanna and Kanye West and Paul McCartney";"";"2015";0;"00:00:00" |
| Free Fallin';"JOHN MAYER";"Acoustic";"0000";110;"00:00:00" |
| Freedom;"Akon";"";"2008";0;"00:00:00" |
| Friends (Feat. Rock Mafia);"AURA DIONE";"Pop";"0000";94;"00:00:00" |
| Get Lucky (Radio Edit) [feat. Pharrell Willia;"Daft Punk";"";"2013";0;"00:00:00" |
| Give Me One Reason;"TRACY CHAPMAN";"Blues";"0000";101;"00:00:00" |
| Grandma's Hands;"BILL WITHERS";"Blues";"0000";83;"00:00:00" |
| Habits;"TOVE LO";"Pop";"0000";110;"00:00:00" |
| Hazey;"Glass Animals";"";"2014";0;"00:00:00" |
| Heartbreak Warfare;"JOHN MAYER";"Blues";"0000";97;"00:00:00" |
| How Do I Breathe;"Mario";"";"2007";0;"00:00:00" |
| How To Love;"LIL WAYNE";"R&B";"0000";77;"00:00:00" |
| i;"KENDRICK LAMAR";"R&B";"0000";122;"00:00:00" |
| I Got All You Need;"JOE BONAMASSA";"Blues";"0000";126;"00:00:00" |
| I Got The Blues;"BROTHER YUSEF";"Blues";"0000";101;"00:00:00" |
| I'm Not the Only One;"SAM SMITH";"Pop";"0000";82;"00:00:00" |
| In the Dark;"Charlie Puth";"";"2013";0;"00:00:00" |
| It Was Always You;"MAROON 5";"Pop";"0000";104;"00:00:00" |
| Jealous;"NICK JONAS";"Pop";"0000";93;"00:00:00" |
| Junior Parker;"JEAN-JACQUES MILTEAU";"Blues";"0000";97;"00:00:00" |
| Just Like Music (Feat. Marvin Gaye);"ERICK SERMON";"R&B";"0000";100;"00:00:00" |
| Just the two of us;"BILL WITHERS";"Jazz";"0000";96;"00:00:00" |
| Just The Way You Are;"BRUNO MARS";"Pop";"0000";110;"00:00:00" |
| Kangaroo Court;"CAPITAL CITIES";"Pop";"0000";100;"00:00:00" |
| Knock On Wood;"EDDIE FLOYD";"Soul";"0000";105;"00:00:00" |
| Last Friday Night (T.G.I.F.);"KATY PERRY";"Pop";"0000";126;"00:00:00" |
| Last Time;"CODY KAHMAR";"";"0000";0;"00:00:00" |
| Latch (Feat. Sam Smith);"DISCLOSURE";"Pop";"0000";122;"00:00:00" |
| Lay It All On Me;"Rudimental Ft Ed Sheeran";"dance";"2015";122;"00:04:02" |
| Let Me Blow Ya Mind;"Eve";"";"2001";0;"00:00:00" |
| Let's Stay Together;"Al Green";"";"1975";0;"00:00:00" |
| Let's Take A Walk;"RAPHAEL SAADIQ";"Soul";"0000";111;"00:00:00" |
| Like father, Like son;"CHRIS THOMAS KING";"Blues";"0000";88;"00:00:00" |
| Love and happiness;"AL GREEN";"Soul";"0000";99;"00:00:00" |
| Love Me Harder (Feat. The Weeknd);"ARIANA GRANDE";"Pop";"0000";99;"00:00:00" |
| Love Me Like You Do (From "Fifty Shades Of Gr;"Ellie Goulding";"";"2015";0;"00:00:00" |
| Lovely day;"BILL WITHERS";"Soul";"0000";98;"00:00:00" |
| Mad;"ANTHONY HAMILTON";"R&B";"0000";95;"00:00:00" |
| Magic;"ROBIN THICKE";"Soul";"0000";108;"00:00:00" |
| Magnets;"Disclosure Ft Lorde";"electronic";"2015";92;"00:03:19" |
| Missing You;"Betty Who";"";"2014";0;"00:00:00" |
| Move;"LITTLE MIX";"Pop";"0000";121;"00:00:00" |
| My Baby;"KACI BROWN";"R&B";"0000";106;"00:00:00" |
| Nobody's Business (feat. Chris Brown);"Rihanna";"";"2012";0;"00:00:00" |
| Not For Long (feat. Trey Songz);"B.o.B";"";"2014";0;"00:00:00" |
| Ode To Billie Joe;"TOM SCOTT";"";"0000";0;"00:00:00" |
| On Fire;"JJ GREY & MOFRO";"Soul";"0000";98;"00:00:00" |
| One Call Away;"Charlie Puth";"pop";"2015";91;"00:03:12" |
| Q's Blues;"ROOMFUL OF BLUES";"Blues";"0000";112;"00:00:00" |
| Rappers Delight;"SUGARHILL GANG";"";"0000";0;"00:00:00" |
| Respect Yourself;"STAPLE SINGERS";"Pop";"0000";0;"00:00:00" |
| Ring Ring Ring;"DE LA SOUL";"R&B";"0000";104;"00:00:00" |
| Same Old Love;"Selena Gomez";"pop";"2015";98;"00:03:49" |
| Scream;"USHER";"Dance";"0000";127;"00:00:00" |
| Scream & Shout (Feat. Britney Spears);"WILL.I.AM";"Dance";"0000";127;"00:00:00" |
| Secret;"MAROON 5";"Pop";"0000";88;"00:00:00" |
| Sexy Love;"NE-YO";"R&B";"0000";94;"00:00:00" |
| Sexy Plexi;"JACK JOHNSON";"Pop";"0000";0;"00:00:00" |
| SexyBack;"Justin Timberlake";"";"2006";0;"00:00:00" |
| She Will Be Loved;"MAROON 5";"Pop";"0000";102;"00:00:00" |
| She Wolf;"SHAKIRA";"Pop";"0000";122;"00:00:00" |
| Shoop;"Salt-n-Pepa";"";"1993";0;"00:00:00" |
| Shots;"Imagine Dragons";"";"2015";0;"00:00:00" |
| Sing;"ED SHEERAN";"Pop";"0000";120;"00:00:00" |
| Some Nights;"Fun.";"";"2012";0;"00:00:00" |
| Some Type of Love;"Charlie Puth";"";"2015";0;"00:00:00" |
| Something Like Olivia;"JOHN MAYER";"Blues";"0000";99;"00:00:00" |
| Springsteen;"ERIC CHURCH";"Country";"0000";104;"00:00:00" |
| Style;"Taylor Swift";"";"2014";0;"00:00:00" |
| Sugar;"KARMIN";"Pop";"0000";95;"00:00:00" |
| Sugar;"MAROON 5";"Pop";"0000";120;"00:00:00" |
| Sweet Memory;"MELODY GARDOT";"Jazz";"0000";107;"00:00:00" |
| Sweet Sixteen;"JUNIOR WELLS";"Blues";"0000";100;"00:00:00" |
| Take Your Time;"SAM HUNT";"Country";"0000";79;"00:00:00" |
| Talk Dirty (Feat. 2 Chainz);"JASON DERULO";"R&B";"0000";100;"00:00:00" |
| Team;"LORDE";"Pop";"0000";100;"00:00:00" |
| The Dock Of The Bay;"AARON NEVILLE";"";"0000";0;"00:00:00" |
| The Heart Wants What It Wants;"SELENA GOMEZ";"Pop";"0000";83;"00:00:00" |
| The Joker;"STEVE MILLER BAND";"Dance";"0000";0;"00:00:00" |
| The Thrill Is Gone;"BB KING";"";"0000";0;"00:00:00" |
| Thrift Shop (feat. Wanz);"Macklemore & Ryan Lewis";"";"2012";0;"00:00:00" |
| Time of Our Lives;"Pitbull & Ne-Yo";"";"2014";0;"00:00:00" |
| title;"ALOE BLACC";"Soul";"0000";105;"00:00:00" |
| title;"ANTHONY HAMILTON";"R&B";"0000";95;"00:00:00" |
| title;"ARIANA GRANDE";"Pop";"0000";99;"00:00:00" |
| title;"JASON MRAZ";"Pop";"0000";100;"00:00:00" |
| title;"JOSH ROUSE";"Pop";"0000";118;"00:00:00" |
| title;"MAROON 5";"Pop";"0000";120;"00:00:00" |
| title;"MIKE MORGAN & THE CRAWL";"Blues";"0000";112;"00:00:00" |
| title;"R. KELLY";"R&B";"0000";107;"00:00:00" |
| title;"SELENA GOMEZ";"Pop";"0000";83;"00:00:00" |
| title;"SHAKIRA";"Pop";"0000";122;"00:00:00" |
| title;"STAPLE SINGERS";"Pop";"0000";0;"00:00:00" |
| title;"WILL.I.AM";"R&B";"0000";99;"00:00:00" |
| Treasure;"Bruno Mars";"";"2012";0;"00:00:00" |
| Trouble;"NE-YO";"R&B";"0000";115;"00:00:00" |
| Uptown Funk (feat. Bruno Mars);"Mark Ronson";"";"2014";0;"00:00:00" |
| Walk On the Wild Side;"KENDRA MORRIS";"Soul";"0000";95;"00:00:00" |
| Wasn't Expecting That;"Jamie Lawson";"chillout";"2015";90;"00:03:21" |
| Why Did You Lie to Me;"Bryan Lee";"";"2007";0;"00:00:00" |
| Worth It (feat. Kid Ink);"Fifth Harmony";"";"2015";0;"00:00:00" |
| You and I;"JOHN LEGEND";"Soul";"0000";84;"00:00:00" |
| You Got It;"LUCAS GRABEEL";"R&B";"0000";117;"00:00:00" |
| Your Body Is a Wonderland;"JOHN MAYER";"Pop";"0000";94;"00:00:00" |
| Your Love;"NICKI MINAJ";"Hip-Hop";"0000";95;"00:00:00" |

### Track\_Lyrics

track\_id;"text"

## Implementation code

https://bitbucket.org/joenelsong/wcs\_dj\_db/src

### db.html:

<html>

<title>WCS DJ</title>

</head>

<body bgcolor="white">

<h3>Connecting to WCS Database on jnelson@ix.cs.uoregon.edu using MySQL/PHP/Python</h3>

<hr>

<p>

DJ Registration:

<p>

<form action="DJRegistration.php" method="POST">

<input type="text" name="dj\_name"> (Enter DJ Name) <br>

<input type="text" name="dj\_url"> (Enter the URL to your playlists)<br>

<input type="text" name="dj\_city"> (Enter your City of origin)<br>

<input type="text" name="dj\_state"> (Enter your Abbreviated State of origin) <br>

<input type="text" name="dj\_country"> (Enter your Abbreviated Country of origin <br>

<input type="text" name="dj\_years\_exp"> (Enter your experience as a DJ in years)<br>

<input type="submit" value="submit">

<input type="reset" value="erase">

</form>

<hr>

<p>

Most Popular WCS Artists:

<p>

<form action="MostPlayedArtist.php" method="POST">

<input type="submit" value="View Now">

</form>

<br>

<p>

Tempo Statistics:

<p>

<form action="TempoStats.php" method="POST">

<input type="submit" value="View Now">

</form>

<br>

<hr>

<a href="https://bitbucket.org/joenelsong/wcs\_dj\_db/overview" >Link to this Project's Repository</a> <br>

- Let me know what querries you'd like to see, what sources are available that I'm not using, and what other meta data you might want to see <br>

- For the truely inspired contact me so we can get you writing some automated scripts for maintain and analyze the database <br>

<p>

Database connection info, <a href="connectionData.txt" >connection data</a>,

kept separately for security reasons

<p>

If you don't know what WCS is, <a href="https://www.youtube.com/watch?v=woRcZWk0hYc&feature=youtu.be&t=31"> Watch This Performance </a>

</body>

</html>

### TempoStats.php:

**<?php**

**include**('connectionData.txt');

$mysqli **=** **new** mysqli($server, $user, $pass, $dbname, $port, 'MySQL');

**if** ($mysqli**->**connect\_errno) {

**echo** "Failed to connect to MySQL: (" **.** $mysqli**->**connect\_errno **.** ") " **.** $mysqli**->**connect\_error;

}

*/\* create a prepared statement \*/*

$sql **=** "SELECT MIN(t.bpm) as min, MAX(t.bpm) as max, AVG(t.bpm) as av FROM Track t WHERE t.bpm !='' ;";

**if** (**!**($stmt **=** $mysqli**->**prepare($sql))) {

**echo** "Prepare failed: (" **.** $mysqli**->**errno **.** ") " **.** $mysqli**->**error;

}

**if** (**!**$stmt**->**execute()) {

**echo** "Execute failed: (" **.** $stmt**->**errno **.** ") " **.** $stmt**->**error;

}

**?>**

<html>

<head>

<title>WCS Song Tempo Statistics</title>

</head>

<body bgcolor="white">

<hr>

<p>

The query: "Min, Max, and Avg Beats Per Minute of all WCS songs in the database"

<p>

<hr>

<p>

Result of query:

<p>

**<?php**

$out\_description **=** **NULL**;

$out\_revenues **=** **NULL**;

**if** (**!**$stmt**->**bind\_result($a, $b, $c)) {

**echo** "Binding output parameters failed: (" **.** $stmt**->**errno **.** ") " **.** $stmt**->**error;

}

**while** ($stmt**->**fetch()) {

printf("Minimum Beats Per Minute: %s ", $a);

**echo** "\r\n"; *// Newlines won't work! :(*

printf("Maximum Beats Per Minute: %s ", $b);

**echo** "\r\n"; *// Newlines won't work! :(*

printf("Average Beats Per Minute: %s ", $c);

**echo** "\r\n"; *// Newlines won't work! :(*

*//print PHP\_EOL;*

}

**?>**

<p>

<hr>

</body>

</html>

### MostPlayedArtist.php

**<?php**

**include**('connectionData.txt');

$mysqli **=** **new** mysqli($server, $user, $pass, $dbname, $port, 'MySQL');

**if** ($mysqli**->**connect\_errno) {

**echo** "Failed to connect to MySQL: (" **.** $mysqli**->**connect\_errno **.** ") " **.** $mysqli**->**connect\_error;

}

*/\* create a prepared statement \*/*

$sql **=** "SELECT track\_artist, cs as 'Count'

FROM

(

SELECT track\_artist, COUNT(\*) as cs

FROM Toplist\_has\_Tracks

GROUP BY track\_artist

UNION ALL

SELECT track\_artist, COUNT(\*) as cs

FROM RadioStation\_has\_Tracks

GROUP BY track\_artist

UNION ALL

SELECT track\_artist, COUNT(\*) as cs

FROM RadioStation\_has\_Tracks

GROUP BY track\_artist

UNION ALL

SELECT track\_artist, COUNT(\*) as cs

FROM Playlist\_has\_Tracks

GROUP BY track\_artist

) t1

GROUP BY t1.track\_artist

ORDER BY t1.cs DESC";

**if** (**!**($stmt **=** $mysqli**->**prepare($sql))) {

**echo** "Prepare failed: (" **.** $mysqli**->**errno **.** ") " **.** $mysqli**->**error;

}

**if** (**!**$stmt**->**execute()) {

**echo** "Execute failed: (" **.** $stmt**->**errno **.** ") " **.** $stmt**->**error;

}

**?>**

<html>

<head>

<title>Most Popular WCS Artists</title>

</head>

<body bgcolor="white">

<hr>

<p>

The query: "Artist Name" Followed by "Number of times Played"

<p>

<hr>

<p>

Result of query:

<p>

**<?php**

$out\_description **=** **NULL**;

$out\_revenues **=** **NULL**;

**if** (**!**$stmt**->**bind\_result($out\_description, $out\_revenues)) {

**echo** "Binding output parameters failed: (" **.** $stmt**->**errno **.** ") " **.** $stmt**->**error;

}

**while** ($stmt**->**fetch()) {

printf("%20s %12s", $out\_description, $out\_revenues);

**echo** "\r\n"; *// Newlines won't work! :(*

*//print PHP\_EOL;*

}

**?>**

<p>

<hr>

</body>

</html>

### DJRegistration.php

**<?php**

**include**('connectionData.txt');

$mysqli **=** **new** mysqli($server, $user, $pass, $dbname, $port, 'MySQL');

**if** ($mysqli**->**connect\_errno) {

**echo** "Failed to connect to MySQL: (" **.** $mysqli**->**connect\_errno **.** ") " **.** $mysqli**->**connect\_error;

}

*/\* create a prepared statement \*/*

*//$sql = "SELECT s.description as 'Item Description', sum(i.total\_price) as 'Revenues' FROM stock s JOIN manufact m using(manu\_code) JOIN items i using(stock\_num) WHERE m.manu\_name = ? group by s.description";*

*/\* create a prepared statement \*/*

$sql **=** "INSERT INTO DJ (dj\_id, dj\_name, dj\_city, dj\_state, dj\_country, dj\_experience, dj\_url) VALUES (?, ?, ?, ?, ?, ?, ?)";

**if** (**!**($stmt **=** $mysqli**->**prepare($sql))) {

**echo** "Prepare failed: (" **.** $mysqli**->**errno **.** ") " **.** $mysqli**->**error;

}

*/\* Prepared statement, stage 2: bind and execute \*/*

$ai **=** "";

$n **=** $\_POST['dj\_name'];

$city **=** $\_POST['dj\_city'];

$s **=** $\_POST['dj\_state'];

$country**=** $\_POST['dj\_country'];

$y **=** $\_POST['dj\_years\_exp'];

$u **=** $\_POST['dj\_url'];

*//$m = 'Anza';*

**if** (**!**$stmt**->**bind\_param("sssssss", $ai, $n, $city, $s, $country, $y, $u)) { *// bind variables*

**echo** "Binding parameters failed: (" **.** $stmt**->**errno **.** ") " **.** $stmt**->**error;

}

**if** (**!**$stmt**->**execute()) {

**echo** "Execute failed: (" **.** $stmt**->**errno **.** ") " **.** $stmt**->**error;

}

$stmt**->**close();

$mysqli**->**close();

**?>**

<html>

<head>

<title>DJ Database Registration</title>

</head>

<body bgcolor="white">

<hr>

<p>

DJ Registration Complete. ( We will check you out soon! )

<p>

<hr>

</body>

</html>

### RadioWCS\_MySQLDB\_Logger.py

*#!/usr/bin/python*

*# Author: Joey Nelson*

*# Coded in Python 2.7.11*

**import** MySQLdb

**import** urllib**,** json

**import** urllib2

**import** time

**import** sys

**import** os

**import** datetime

**import** random

**import** httplib

**def** **artistStrip**(s):

stripString **=** "\,,\'"

**return** s**.**strip(stripString)

**def** **titleStrip**(s):

stripString **=** "\,,\'"

**return** s**.**strip(stripString)

**def** **newlineStrip**(s):

stripString **=**"\\n"

**return** s**.**strip(stripString)

**def** **attrib\_DateTime**(timestamp): *# import datetime*

d **=** datetime**.**datetime**.**fromtimestamp(int(timestamp))**.**strftime('%Y-%m-%d %H:%M:%S')

*# returns string of format: yyyy-mm-dd hh:mm:ss ; compatiable with sqlite3 DATETIME*

**return** d

*# Database Functions*

**def** **db\_AddRecordTo\_RadioStation\_has\_Tracks**(RS\_id, datetime, title, artist):

**print** 'db\_AddRecordTo\_RadioStation\_has\_Tracks()'

**try**:

cur**.**execute(''' INSERT INTO RadioStation\_has\_Tracks VALUES (%s, %s, %s, %s)''', (RS\_id, datetime, title, artist) )

con**.**commit()

**print** '--ADDED to WCS.RadioStation\_has\_Tracks'

**except** MySQLdb**.**Error, e:

**try**:

**print** "MySQL Error [%d]: %s" **%** (e**.**args[0], e**.**args[1])

**except** **IndexError**:

**print** "MySQL Error: %s" **%** str(e)

**def** **db\_AddRecordTo\_Track**(title, artist, genre, bpm):

**try**:

cur**.**execute(''' INSERT INTO Track VALUES (%s, %s, %s, %s, %s, %s)''', (title, artist, genre, '', bpm, '') )

con**.**commit()

**print** '--ADDED to WCS.Track'

**except** MySQLdb**.**Error, e:

**try**:

**print** "MySQL Error [%d]: %s" **%** (e**.**args[0], e**.**args[1])

**except** **IndexError**:

**print** "MySQL Error: %s" **%** str(e)

'''

try:

con.commit()

except:

# Rollback in case there is any error

print('EXCEPTION')

con.rollback()

'''

**def** **main**(URL):

*# Set to global for easier debugging in event of a crash*

**global** html

**global** z1

**global** z2

**global** z3

url **=** URL

**while** True:

**try**:

response **=** urllib2**.**urlopen(url)

html **=** response**.**read()

**except** (urllib2**.**URLError, httplib**.**BadStatusLine) **as** e: *# { BadStatusLine(2 days)}*

**if** hasattr(e, 'reason'):

**print** 'We failed to reach a server.'

**print** 'Reason: ', e**.**reason

time**.**sleep(60)

**continue**

**elif** hasattr(e, 'code'):

**print** 'The server couldn\'t fulfill the request.'

**print** 'Error code: ', e**.**code

time**.**sleep(60)

**continue**

**else**:

**pass**

*# Restructuring HTML read*

z**=**html**.**split(" = ")

**try**:

z1**=**z[1]

z2 **=** z1**.**split(";")

z3 **=** newlineStrip(z2[0]) *# Strip newline character, for some reason it was causing issues in rare circumstances, never figured out why*

**exec** "trackList ="**+**z3

**break**

**except**:

**print**("exec trackList ='+z3'Failed", "...retrying")

time**.**sleep(60)

**continue**

*# parses each of the elements of a and writes it to a text file neatly*

**for** i **in** trackList:

newTrackString **=** (i["artist"]**+**" - "**+**i["title"])

*# Ignore Tracks that were recently added (this should avoid seeing a duplicate error message)*

**if** newTrackString **not** **in** recentlyAdded:

*# Add track data to database*

**print** "Found: "**+**newTrackString, i["genre"], i["bpm"] ,"@ "**+**attrib\_DateTime(i["date"])

db\_AddRecordTo\_RadioStation\_has\_Tracks("1", attrib\_DateTime(i["date"]), i["title"], i["artist"])

db\_AddRecordTo\_Track( i["title"], i["artist"], i["genre"], i["bpm"] )

con**.**close()

**print** 'db connection closed.'

**if** \_\_name\_\_ **==** "\_\_main\_\_":

*#print(len(sys.argv))*

**for** i **in** sys**.**argv:

**print** i

**if** len(sys**.**argv) **>** 1:

URL **=** str(sys**.**argv[1])

**else**:

URL **=** "http://anchorstep.radiowcs.com/cast/"

**if** len(sys**.**argv) **>** 2:

QUERYDELAY **=** float(sys**.**argv[2])

**else**:

*#QUERYDELAY = float(9\*60\*2.5) # 10 tracks \* 60 seconds \* 3 minutes per track*

QUERYDELAY **=** float((random**.**random()**\***10**+**3)**\***60) *# check every 1 to 10 minutes -> Just incase they might be tracking cyclic activity from 1 ip address*

*#Define and Connect to Database*

table **=** 'RadioStation\_has\_Tracks'

*#table = sys.argv[???]*

db **=** 'WCS'

*# Comment this out if recovering from a restart*

recentlyAdded**=**['']**\***10 *# This ensures we don't added the same track multiple times when trying to discover new tracks at too quickly (9 = tracks/querry)*

**while** True:

*# Open database connection*

con **=** MySQLdb**.**connect("ix.cs.uoregon.edu","guest","guest","WCS")

con**.**text\_factory **=** str

*# prepare a cur object using cur() method*

cur **=** con**.**cursor()

*# execute SQL query using execute() method.*

cur**.**execute("SELECT VERSION()")

*# Fetch a single row using fetchone() method.*

data **=** cur**.**fetchone()

**print** "Database version : %s " **%** data

*#cur.execute('SELECT \* FROM '+table)*

*#print cur.fetchall()*

*#db\_AddRecordTo\_RadioStation\_has\_Tracks("1", "2000-01-02 01:02:03", "title", "artist", "RadioStation\_has\_Tracks")*

main(URL) *# MAIN*

**print** 'sleeping . . .'

time**.**sleep(QUERYDELAY) *# sleeps for sleepDuration which is Minutes\*Tracks per Query*

## Conclusion

Things that still need to be done are the following:

1. Write more scripts to automatically collect information available online.
2. Write a script to go through the Track table and fill in missing fields that are not being logged from their primary point of acquisition.
3. Include more Radio, DJ, and Top X lists to create a more diverse database
4. Include more than just West coast Swing radio stations (Because West Coast Swing is itself very eclectic, so it would be nice to contain many different sources of music (blues, pop, r&b, hiphop, jazz, etc.)
5. Allow more sophisticated querying from users
6. Give registers DJ’s extensive access to the database, and other users limited, or pay to use
7. Also the front end could be build up to look nice, now it is extremely rudimentary
   1. Ideally this would contain my own custom views
      1. Average BPM histogram for Playlists
      2. Genre distributions, Duration, Key, time Signatures, etc.
   2. Also it would allow for logged in users to have their own custom views (maybe)
   3. Users could save Queries they’ve ran before
8. I’d also want to include an Event’s Table which would show which event each Source came from.