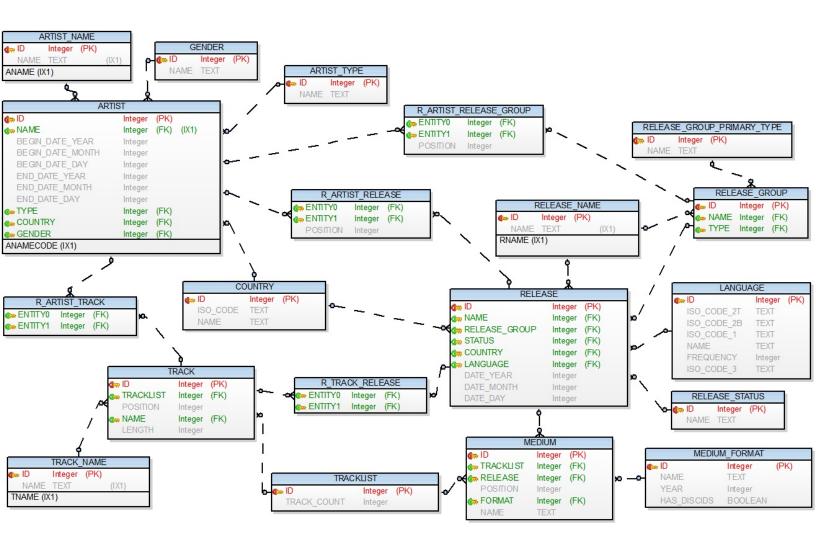
Jory Anderson V00843894 Fall – 2017

CSC 370: Database Systems Musicbrainz

Database Schema

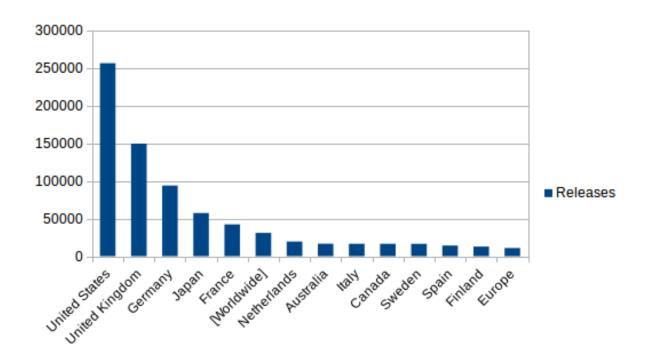


Determining the Number of Releases per Country

```
SELECT country.name AS "Country", COUNT(release.name) AS "Releases"
FROM country, release
WHERE country.id = release.country
GROUP BY country.name
ORDER BY "Releases" DESC;
```

| United States | 256477 |
|--------------------|--------|
| United Kingdom | 149674 |
| Germany | 93908 |
| Japan | 57338 |
| France | 42245 |
| [Worldwide] | 30920 |
| Netherlands | 19431 |
| Australia | 16549 |
| Italy | 16392 |
| Canada | 16376 |
| Sweden | 16316 |
| Spain | 14074 |
| Finland | 12733 |
| Europe | 10769 |
| Russian Federation | 10159 |
| Brazil | 8215 |
| Belgium | 8017 |
| Poland | 7088 |
| Norway | 4983 |
| Denmark | 4719 |
| Greece | 4174 |
| Austria | 4110 |
| Argentina | 3857 |
| Switzerland | 3737 |
| Czech Republic | 3252 |
| Turkey | 3149 |
| New Zealand | 2927 |
| Estonia | 2567 |
| Hungary | 2408 |
| Taiwan | 2362 |
| | |

Determining the Number of Releases per Country



Some conclusions drawn from the above chart:

- The United States produces roughly as much music as the United Kingdom and Germany combined - Both countries that lead in their number of releases both start with the word "United"

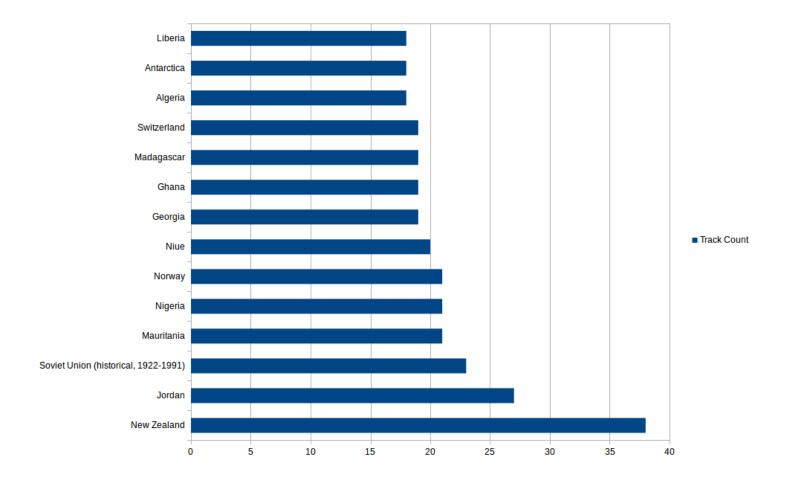
Determining the Average Track Count per Country

```
SELECT country.name AS "Country", AVG(tracklist.track_count) AS "Track Count"
FROM country, tracklist, release, medium
WHERE country.id = release.id AND release.id = medium.id AND medium.tracklist =
tracklist.id
GROUP BY country.name
ORDER BY "Track Count" DESC;
                                     New Zealand 38.0
                                        Jordan 27.0
                           Soviet Union (historical, 1922-1991) 23.0
                                     Mauritania
                                                  21.0
                                     Nigeria
                                                  21.0
                                     Norway
                                                  21.0
                                        Niue
                                               20.0
                                     Georgia
                                                  19.0
                                        Ghana 19.0
                                     Madagascar
                                                  19.0
                                     Switzerland
                                                  19.0
                                     Algeria
                                                  18.0
                                     Antarctica
                                                  18.0
                                        Liberia 18.0
                                     Mauritius
                                                  18.0
                                     Swaziland
                                                  18.0
                                     Zimbabwe
                                                  18.0
                                     [Worldwide] 18.0
                                     Hong Kong
                                                  17.0
                                        Ireland 17.0
                                        Togo 17.0
                                        Yemen 17.0
                                        Cuba 16.0
                                     Honduras
                                                  16.0
                                     Morocco
                                                  16.0
                                  Palestinian Territory 16.0
                    Saint Helena, Ascension and Tristan da Cunha
                                                                   16.0
                                     Slovakia
                                                  16.0
                    South Georgia and the South Sandwich Islands
                                                                   16.0
```

Tokelau

16.0

Determining the Average Track Count per Record



- Perhaps it is a cultural belief that New Zealanders should include a larger amount of tracks per record. Or perhaps America and Canada value music twice as much as New Zealanders do.
 - The majority of the list is comprised of third-world countries.

Who Wrote the Longest Track?

```
SELECT artist_name.name, artist.country, track_name.name, MAX(track.length)
FROM artist_name, TRACK, track_name, r_artist_track, artist
WHERE artist_name.id = artist.id AND artist.name = r_artist_track.entity0
AND r_artist_track.entity1 = track.id AND track.id = track_name.id;
```

Riccardo Perotti

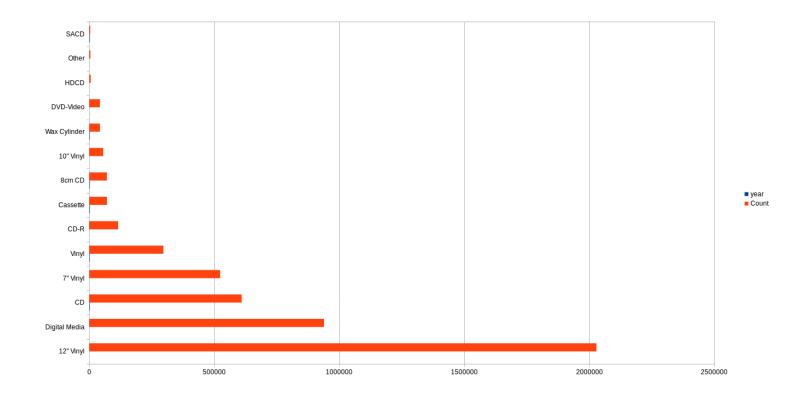
Nouvelles suites de Pièces de clavecin : Sarabande

10853000

The Amount of Releases per Media Format

| l2" Vinyl | | 2029136 |
|---------------|------|---------|
| Digital Media | | 939084 |
| CD 1982 | | 609873 |
| 7'' Vinyl | | 523566 |
| Vinyl 1895 | | 296709 |
| CD-R | | 115500 |
| Cassette | 1964 | 70920 |
| 8cm CD | 1982 | 70550 |
| 10" Vinyl | | 55650 |
| Wax Cylinder | 1877 | 42938 |
| DVD-Video | | 42598 |
| HDCD | | 5875 |
| Other | | 4602 |
| SACD | 1999 | 4002 |
| DVD | 1995 | 3806 |
| Piano Roll | 1883 | 2460 |
| USB Flash Di | ive | 2444 |
| DVD-Audio | | 2052 |
| VHS | | 1302 |
| VCD | | 1232 |
| DualDisc | 2004 | 1060 |
| Blu-ray | | 780 |
| | | |

The Amount of Releases per Media Format



- Historically, releases have been on Vinyl, much more than any other media format.
- Digital Media needs more than 100,000 releases in order to overtake 12" Vinyl in quantity.
- The majority of media formats were niche products, or did not last long before the next-generation media format was released.

All Releases Including the Word 'The' in the Title

```
SELECT artist_name.name AS "Artist", release name.name AS "Release",
                               release.date year AS "Year"
FROM r artist release, artist, release, release name, artist name
WHERE artist_name.id = artist.name AND artist.id = r_artist_release.entity0 AND
r_artist_release.entity1 = release.id AND release.name = release_name.id AND
release name.name LIKE '%The%';
                          Love .45
                                        The Seattle Sessions E.P.
              raison d'Ãatre Enthraled by the Wind of Lonelienes
                                                                           1994
              raison d'Ãatre Reflections From the Time of Opening
                                                                           1997
              raison d'Ãatre The Empty Hollow Unfolds
                                                                           2000
              raison d'Ãatre Within the Depths of Silence and Phormations
                                                                           1995
              raison d'Ãatre Reflections From the Time of Opening
                                                                           2005
              raison d'Ãatre The Stains of the Embodied Sacrifice
                                                                           2009
              raison d'Ãatre The Luminous Experience (Live in Enschede 2008) 2008
             raison d'Ãatre When the Earth Dissolves in Ashes (Live 2010/2011)2012
                                           The Best of Rezerwat
                              Rezerwat
              Infester
                           To the Depths, in Degradation
                                                                           1994
              Mhoo Talking in the Streets
                                                                           2011
Mississippi Sheiks
                     Honey Babe Let the Deal Go Down: The Best of Mississippi Sheiks
                                                                                         2004
       Mississippi Sheiks
                           Sitting on Top of the World / Lonely One in This Town
                                                                                  1930
              Eberhard Weber
                                  The Following Morning
                                                                           1976
                       Eberhard Weber
                                           The Colours of Chloë
              House of Low CultureLive From the House of Low Temperature! 2004
              House of Low CultureLive From the House of Low Temperature! 2004
             Choclair
                          What It Takes - The Official Remixes (Placebo Recordings)
                          Stereobate
                                        Selling Out in the Silent Era
              Flame The 6th
                                                                           2012
              Flame The 6th
                                                                           2012
              We Barbarians In the Doldrums
                                                                           2008
              Blake Together
                                                                           2009
              Greg Sczebel Love & the lack thereof
                                                                           2009
```

• • •

What is the Shortest Track?

SELECT track_name.name, MIN(track."length")
FROM track, track_nam
WHERE track.name = track name.id;

Sare 13

Which Bands Have Composed the Most Tracks?

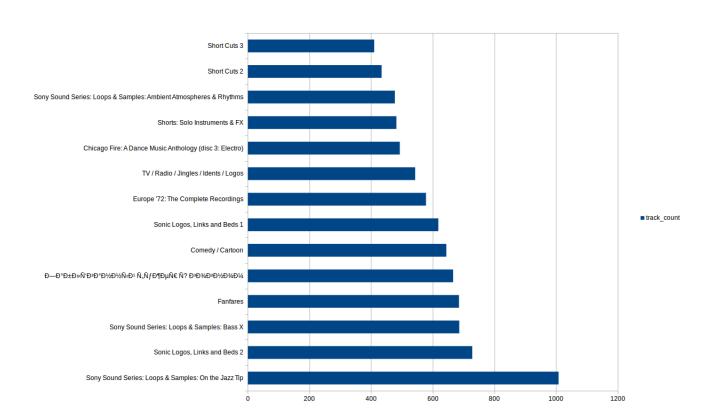
SELECT artist_name.name, COUNT(track_name.name) AS "Count"
FROM artist_name, artist, r_artist_track, track, track_name
WHERE artist_name.id = artist.name AND artist.id = r_artist_track.entity0 AND
r_artist_track.entity1 = track.id AND track.name = track_name.id
GROUP BY artist_name.name
ORDER BY Count DESC
LIMIT 100;

| Johann Sebastian Bach | 66924 | |
|--|-------|--|
| [unknown] | 62401 | |
| Wolfgang Amadeus Mozart | 45717 | |
| Ludwig van Beethoven | 34548 | |
| Georg Friedrich Händel | 22576 | |
| Antonio Vivaldi | 19918 | |
| J.K. Rowling | 17649 | |
| U2 | 17441 | |
| Fryderyk Chopin | 17125 | |
| Elvis Presley | 15849 | |
| Joseph Haydn | 14667 | |
| Grateful Dead | 14279 | |
| The Beatles | 14220 | |
| Johannes Brahms | 14200 | |
| ĐŸÑ'Ñ,Ñ€ Đ~Đ»ÑŒĐ¸Ñ‡ Đ§Đ°Đ¹Đ°Đ¾Đ²Ñ?Đ°Đ¸Đ¹ | | |

Which Releases Had the Most Tracks?

SELECT release_name.name, track_count
FROM release_name, release, medium, tracklist
WHERE release_name.id = release.name AND medium.release = release.id AND
medium.tracklist = tracklist.id
ORDER BY track_count DESC
LIMIT 30;

Sony Sound Series: Loops & Samples: On the Jazz Tip 1008
Sonic Logos, Links and Beds 2 728
Sony Sound Series: Loops & Samples: Bass X 686
Fanfares 685
ЗабĐ»Ñ'Đ²Đ°Đ½Đ½Ñ∢Đ¹ Ñ"ÑfжĐμÑ€ Ñ? Đ³Đ¾Đ²Đ½Đ¾Đ¾ 666
Comedy / Cartoon 644

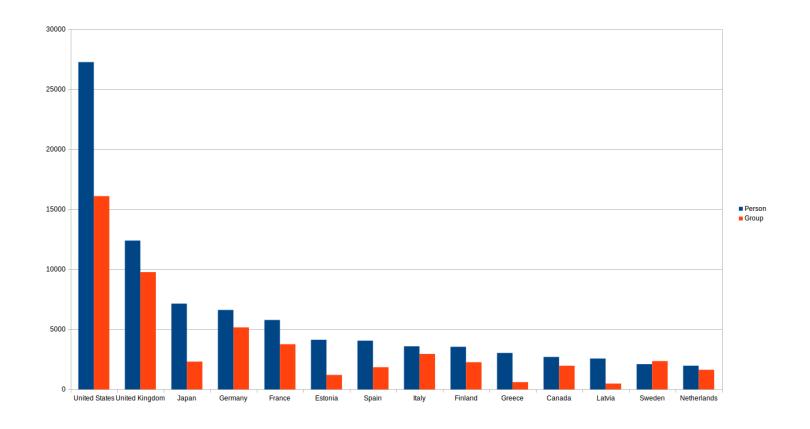


How Many Solo/Group Artists Exist per Country

```
SELECT t1."c1", "Person", "Group"
FROM
      (SELECT country.name AS "c1", COUNT(artist_type.name) AS "Person"
     FROM artist_type, artist, country
      WHERE artist_type.id = artist.type AND artist.country = country.id AND
artist_type.name = 'Person'
      GROUP BY country.name) t1
JOIN
      (SELECT country.name AS "c2", COUNT(artist_type.name) AS "Group"
      FROM artist type, artist, country
      WHERE artist_type.id = artist.type AND artist.country = country.id AND
artist_type.name = 'Group'
      GROUP BY country.name) t2
ON t2."c2" = t1."c1"
GROUP BY t1."c1"
ORDER BY "Person" DESC, "Group" DESC;
```

| United States United Kingdom Japan Germany France Estonia Spain | 27265 12398 7144 6617 5785 4133 4058 | 9772 2318 5168 3765 1208 |
|---|--|--------------------------------------|
| Italy | 3594 | |
| Finland Greece | 3550 3038 | 2268 |
| Canada | 2705 | 1973 |
| Latvia | 2570 | 489 |
| Sweden | 2108 | 2359 |
| Netherlands | 1977 | 1636 |
| Australia | 1581 | _ |
| Turkey | 1412 | - |
| Poland | 1222 | |
| Russian Federation | 1195 | 1059 |
| Denmark | 970 | 630 |
| Brazil | 932 | 582 |
| Norway | 855 | 906 |
| Switzerland | 792 | 500 |
| New Zealand | 770 | 829 |
| India | 758 | 64 |
| Belgium | 745 | 720 |
| Austria | 697 | 466 |
| Jamaica | 625 | 166 |
| Ireland | 577 | 334 |
| Korea (South), Republic of | 551 | 251 |
| Czech Republic | 474 | 399 |

How Many Solo/Group Artists Exist per Country



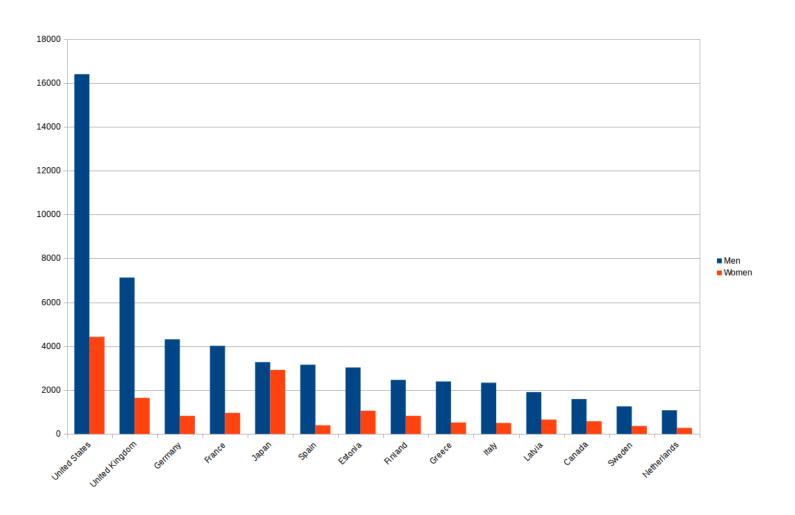
- Single-person artists are much more common than groups
- The only country to have more groups than individuals is Sweden

The Number of Men and Women Artists in Each Country

```
SELECT t1."c1" AS "Country", "Men", "Women"
FROM
      (SELECT country.name AS "c1", COUNT(gender.name) AS "Men"
     FROM gender, artist, country
     WHERE gender.id = artist.gender AND artist.country = country.id AND
gender.name = 'Male'
     GROUP BY country.name) t1
JOIN
      (SELECT country.name AS "c2", COUNT(gender.name) AS "Women"
     FROM gender, artist, country
     WHERE gender.id = artist.gender AND artist.country = country.id AND
gender.name = 'Female'
     GROUP BY country.name) t2
ON t2."c2" = t1."c1"
GROUP BY t1."c1"
ORDER BY "MEN" DESC, "WOMEN" DESC;
```

| United States | 16204 | 4405 |
|--------------------|-------|------|
| | 16394 | |
| United Kingdom | 7126 | |
| Germany | 4310 | |
| France | 4016 | |
| Japan | 3271 | 2915 |
| Spain | 3156 | 395 |
| Estonia | 3029 | 1055 |
| Finland | 2462 | 824 |
| Greece | 2391 | 521 |
| Italy | 2333 | 500 |
| Latvia | 1908 | 654 |
| Canada | 1591 | 578 |
| Sweden | 1258 | 363 |
| Netherlands | 1080 | 277 |
| Turkey | 919 | 443 |
| Poland | 824 | 218 |
| Australia | 815 | 284 |
| Russian Federation | 811 | 149 |
| Switzerland | 576 | 113 |
| Brazil | 564 | 213 |
| India | 554 | 133 |
| Denmark | 542 | 171 |
| Norway | 485 | 139 |
| Austria | 458 | 90 |
| Belgium | 412 | 108 |
| Jamaica | 409 | 64 |
| Argentina | 356 | 53 |
| New Zealand | 322 | 150 |

Listing the Number of Men and Women Artists in Each Country



- Men release more music worldwide than women.
- The only country close to gender gap parity is Japan.