Track and Genre

1. Find the albums recorded by the artist Queen.

irb(main):066:0> **Artist.where("name=?", 'Queen')**

**[0]** #<Artist:0x007f9feab8de68> {

:id => 51,

:name => "Queen",

:created\_at => Sun, 08 Jan 2006 22:57:01 UTC +00:00,

:updated\_at => Wed, 29 Jan 2014 22:10:22 UTC +00:00

}

]

Album.where(artist\_id: 51)

[#<Album id: 36, artist\_id: 51, title: "Greatest Hits II", created\_at: "2008-01-30 14:00:12", updated\_at: "2014-01-29 22:14:02">, #<Album id: 185, artist\_id: 51, title: "Greatest Hits I", created\_at: "2007-12-29 12:02:13", updated\_at: "2014-01-29 22:14:02">, #<Album id: 186, artist\_id: 51, title: "News Of The World", created\_at: "2010-06-23 20:50:06", updated\_at: "2014-01-29 22:14:02">]>

2. Count how many tracks belong to the media type "Protected MPEG-4 video file".

MediaType.where("name =?", 'Protected MPEG-4 video file')

**[0]** #<MediaType:0x007f9fe7eb5198> {

:id => 3,

:name => "Protected MPEG-4 video file",

:created\_at => Fri, 07 Dec 2007 13:17:17 UTC +00:00,

:updated\_at => Wed, 29 Jan 2014 22:14:22 UTC +00:00

}

irb(main):079:0> Track.where("media\_type\_id = ?", '3').count

**(25.5ms)** **SELECT COUNT(\*) FROM "tracks" WHERE (media\_type\_id = '3')**

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irb(main):080:0> Track.where("media\_type\_id = ?", '3').count

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3)Find the genre with the name "Hip Hop/Rap".

Genre.where("name=?", 'Hip Hop/Rap')

#<Genre:0x007f9fe7bd9118> {

:id => 17,

:name => "Hip Hop/Rap",

:created\_at => Sun, 20 Jan 2013 02:04:31 UTC +00:00,

:updated\_at => Wed, 29 Jan 2014 22:14:08 UTC +00:00

}

4)Count how many tracks belong to the "Hip Hop/Rap" genre

Genre.

Genre.where("name=?", 'Hip Hop/Rap')

[#<Genre id: 17, name: "Hip Hop/Rap", created\_at: "2013-01-20 02:04:31", updated\_at: "2014-01-29 22:14:08">]>

Track.where("genre\_id = 17").count

35

5) Find the total amount of time required to listen to all the tracks in the database.

Track.sum(:milliseconds)

**(19.9ms)** **SELECT SUM("tracks"."milliseconds") FROM "tracks"**

=> 1378575827

6) Find the name of the most expensive track that has the media type "MPEG audio file”.

MediaType.where("name=?", 'MPEG audio file')

MediaType id: 1, name: "MPEG audio file",

Track.where(“name=?’ , x).maximum’MPEG audio file’).

Could not complete

7) Find the name of the most expensive track that has the media type "MPEG audio file".

MediaType.where("name=?", 'MPEG audio file')

MediaType id: 1,

Track.where(“MediaType\_id = 1”).sum

Track.where("media\_type\_id =1").maximum(:unit\_price)

0.99e0

8) Find the 2 oldest artists.

Track.order(created\_at: :desc).last(2)

[#<Track id: 1034, album\_id: 83, genre\_id: 12, media\_type\_id: 1, name: "Strangers In The Night", composer: "berthold kaempfert/charles singleton/eddie snyder", milliseconds: 155794, bytes: 5055295, unit\_price: 0.99e0, created\_at: "2004-02-03 01:56:08", updated\_at: "2014-01-29 22:14:58">, #<Track id: 1035, album\_id: 83, genre\_id: 12, media\_type\_id: 1, name: "New York, New York", composer: "fred ebb/john kander", milliseconds: 206001, bytes: 6707993, unit\_price: 0.99e0, created\_at: "2004-02-03 01:56:08", updated\_at: "2014-01-29 22:14:58">]

irb(main):095:0> Track.order(created\_at: :asc).last(2)

9)Find the least expensive track that has the genre "Electronica/Dance".

Genre.where("name=?", 'Electronica/Dance')

Genre id: 15

Track.where(genre\_id: 15).minimum("unit\_price")

0.99e0

10)

Find all "MPEG autio file" tracks in the genre "Electronica/Dance".

Genre.where("name=?", 'Electronica/Dance')

<Genre id: 15, name: "Electronica/Dance"