Music SQL Database Analysis
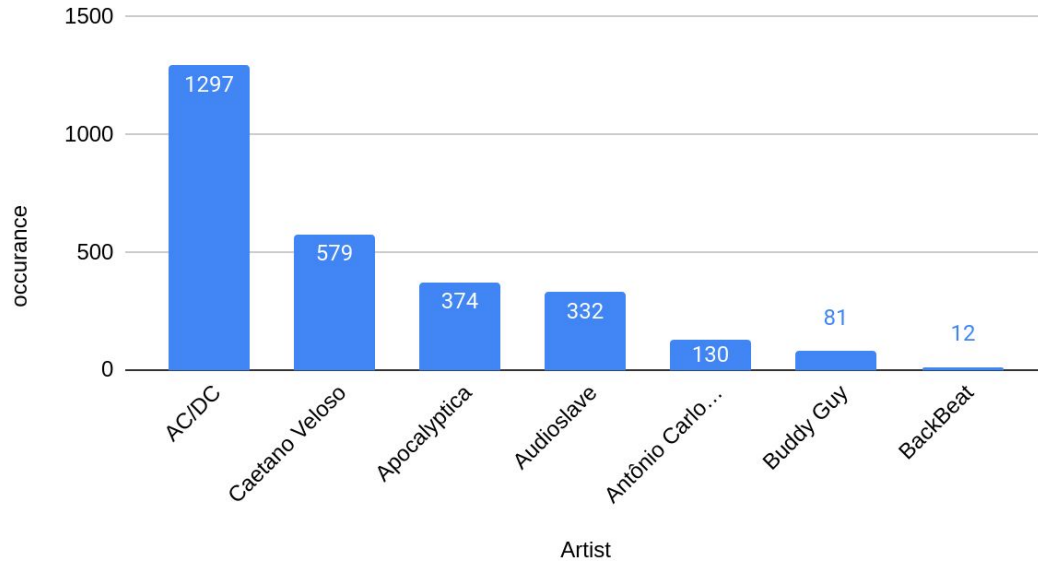
Alejandro Chiriboga

Question 1 : What is the most relevant Artist, regarding the first quartile in GenreId?

Most relevant Artist

AC/DC team artists is the most relevant so far, with 1297 occurrence taking the first group of group of quartiles in analysis.
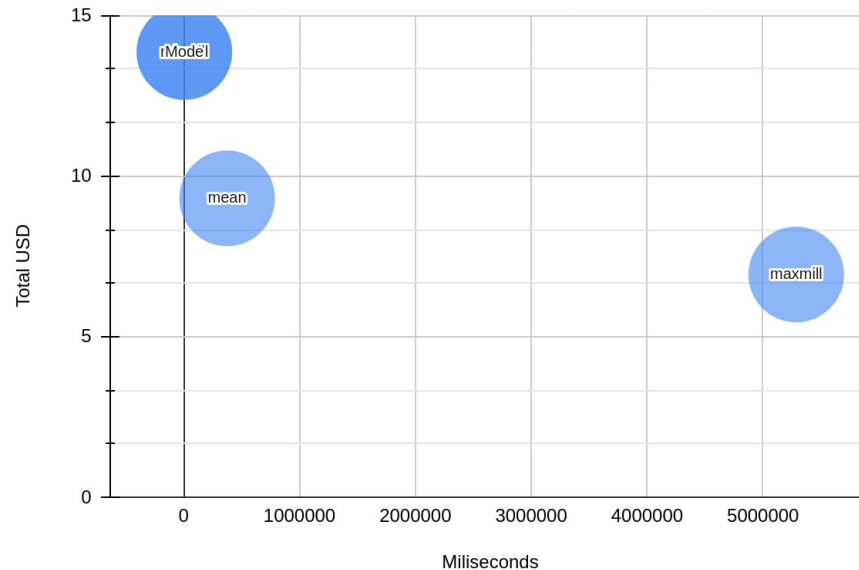
Question 2 : As longer (in milliseconds) is the duration of the track, there is more revenue?

	milliseconds	total
maxmill	5286953	6.94
minmill	6373	13.86
Mode	6373	13.86
mean	375436	9.31

Aplaying the Five number
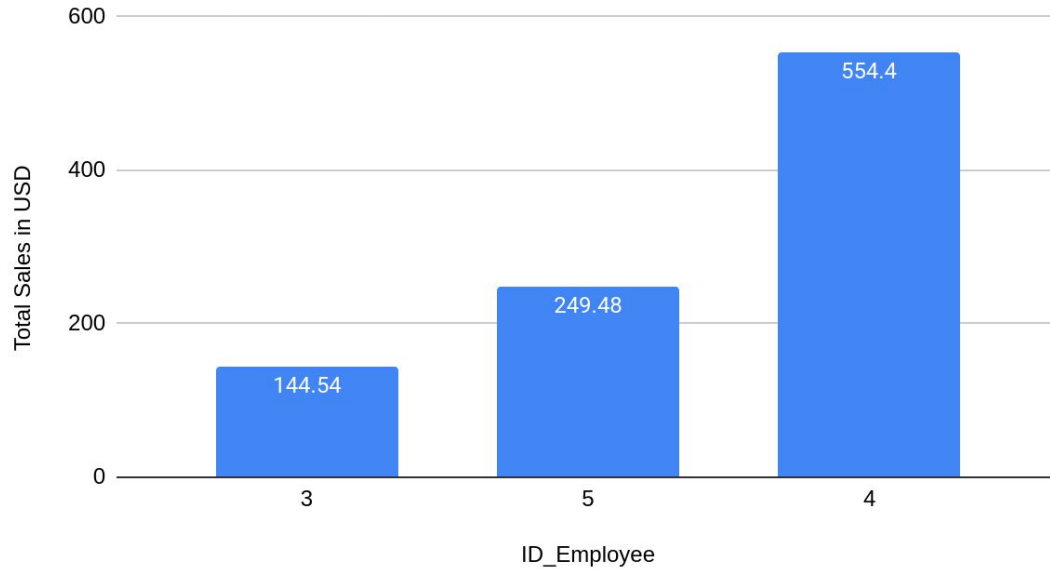
Duration Track time vs Revenue

Question 3 : What employee generate better revenue to the business ?
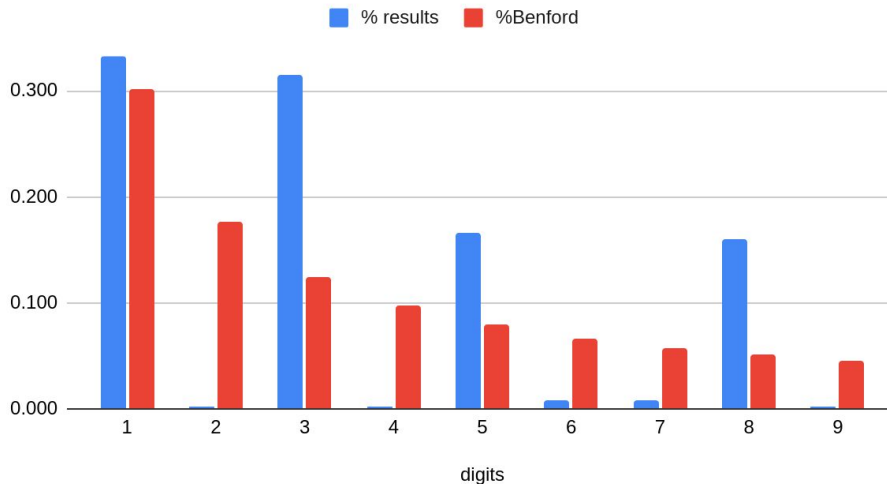
Employees sales results

The Employee with ID 4 is the most relevant so far, with 554,4 USD of sales.

Question 4 : How truthful the Total Value Invoice table of the chinook database is, using "The Benford Law", related by their customers?

digits	occurrence	% results	%Benford
1	118	0.332	0.301
2	1	0.003	0.176
3	112	0.315	0.124
4	1	0.003	0.097
5	59	0.166	0.079
6	3	0.008	0.067
7	3	0.008	0.058
8	57	0.161	0.051
9	1	0.003	0.046

% Results vs % Benford

I made a approach matching results (in %) of the first digit from the total value invoice vs the % of Benford's Law expected, base on that I can say that total value invoice does not have a natural behavior, we need a deep study for determine Fraud detection of the data set.