

Relatório A1

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Etapa 1:

Dataframe: https://github.com/luanahatab/lp_a1/blob/main/dataframe.csv

Prévia:

	álbum	música	letra
1	Queen	Keep Yourself Alive	I was told a million times Of all the troubles in my way Might to grow a little wiser Little better every day But if I crossed a million rivers And I ro
2	Queen	Doing All Right	Yesterday my life was in ruin Now today I know what I'm doing Got a feeling I should be doing all right Doing all right Where will I be this time t
3	Queen	Great King Rat	Great king rat died today Born on the twenty first of may Died syphilis forty four on his birthday Every second word he swore Yes he was the son
4	Queen	My Fairy King	In the land where horses born with eagle wings And honey bees have lost their stings There's singing forever Lion's den with fallow deer And riv
5	Queen	Liar	I have sinned dear father, father, I have sinned Try and help me father Won't you let me in? Liar Nobody believes me Liar Why don't they leave m
6	Queen	The Night Comes Down	When I was young it came to me And I could see the sun breaking Lucy was high and so was I dazzling Holding the world inside Once I believed
7	Queen	Modern Times Rock'n'Roll	Had to make do with a worn out rock and roll scene The old bop is gettin' tired need a rest Well you know what I mean Fifty eight that was great
8	Queen	Son And Daughter	Tried to be your son and daughter rolled into one You said you'd equal any man for having your fun Now didn't you feel surprise to find The cap
9	Queen	Jesus	And then I saw him in the crowd A lot of people had gathered round him The beggars shouted and the lepers called him The old man said nothi
10	Queen	Seven Seas Of Rhye	Fear me, you lord and lady preachers I descend upon your earth from the skies I command your very souls, you unbelievers Bring before me whe
11	Queen	Brighton Rock	Happy little day, Jimmy went away Met his little Jenny on a public holiday A happy pair they made so decorously laid 'Neath the gay illumination
12	Queen	Killer Queen	She keeps Moët et Chandon In her pretty cabinet Let them eat cake, she says Just like Marie Antoinette A built-in remedy For Khrushchev and Ke
13	Queen	Tenement Funster	My new purple shoes Bin' amazin' the people next door And my rock 'n roll 45's Bin' enragin' the folks on the lower floor I got a way with girls or
14	Queen	Flick Of The Wrist	Dislocate your spine if you don't sign, he says I'll have you seeing double Mesmerize you when he's tongue-tied Simply with those eyes Synchron
15	Queen	Lily Of The Valley	I am forever searching high and low But why does everybody tell me no Neptune of the seas Have you an answer for me, please And the lily of t
16	Queen	Now I'm Here	Here I stand (here I stand) Look around around around around (Around around around around) But you won't see me (you won't see me) Now I'
17	Queen	In The Lap Of The Gods	Ah ah ah ah ah Ah ah ah Leave it in the lap of the gods Ah ah ah I live my life for you Think all my thoughts with you and only you Anything you
18	Queen	Stone Cold Crazy	Sleeping very soundly on a Saturday morning I was dreaming I was Al Capone There's a rumour going round Gotta clear outta town I'm smelling
19	Queen	Dear Friends	So dear friends Your love has gone Only tears to dwell upon I dare not say As the wind must blow So a love is lost A love is won Go to sleep and
20	Queen	Misfire	Don't you misfire Fill me up With the desire To carry on Don't you know honey, that love's a game It's always hit or miss, so take your aim Got to
21	Queen	Bring Back That Leroy Brown	Bring back bring back bring back that Leroy Brown Yeah! Bring back bring back gotta ring that Leroy Brown Yeah! Bet your bottom dollar bill you
22	Queen	She Makes Me	I love, she makes me She is my heart She is my love She is my love I know, I'm jealous of her She makes me need She is my love She is my love V
23	Queen		

Etapa 2:

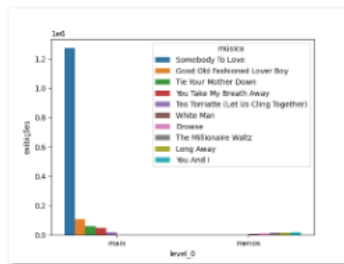
Grupo de perguntas 1:

i. Músicas mais ouvidas e músicas menos ouvidas por Álbum

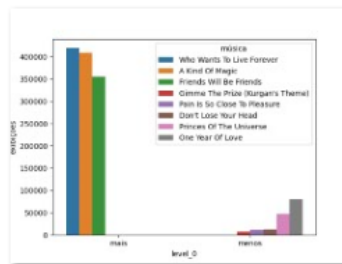
Link para pasta com gráficos:

https://github.com/luanahatab/lp_a1/tree/main/img/Grupo1/Resposta_i

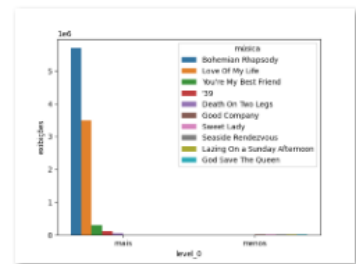
Prévia:



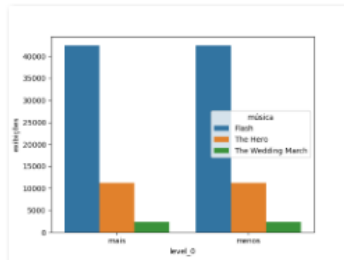
A Day At The Races



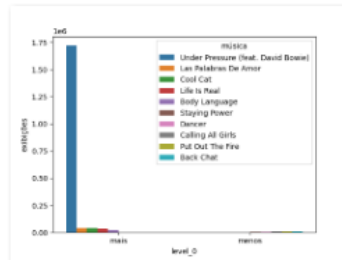
A Kind Of Magic



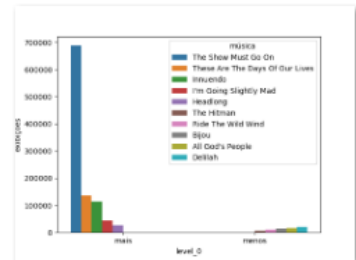
A Night At The Opera



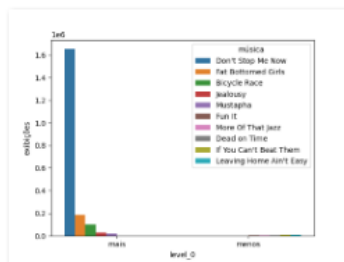
Flash Gordon



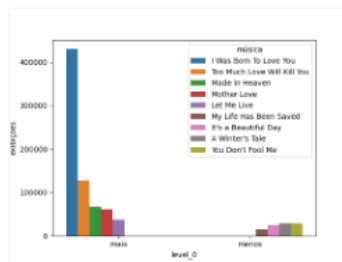
Hot Space



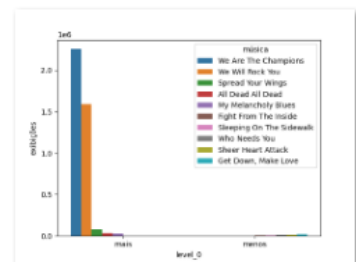
Innuendo



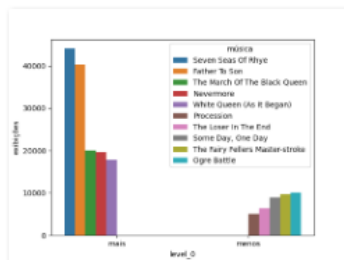
Jazz



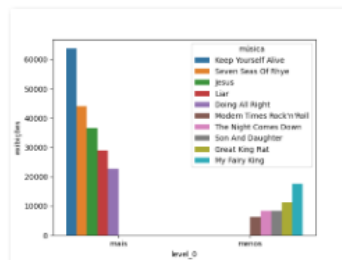
Made In Heaven



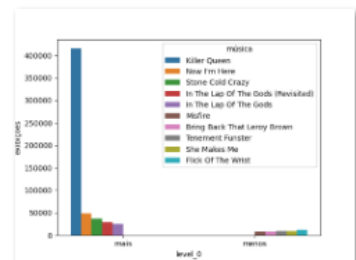
News Of The World



Queen II



Queen



Sheer Heart Attack

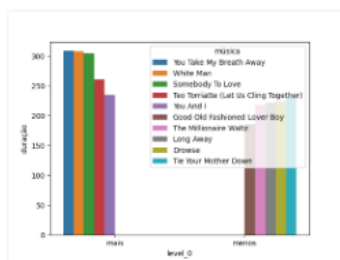


ii. Músicas mais longas e músicas mais curtas por Álbum

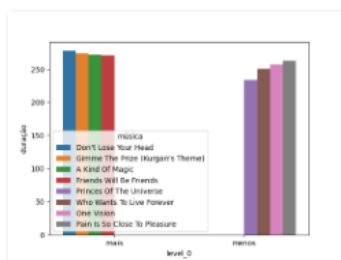
Link para pasta com gráficos:

https://github.com/luanahatab/lp_a1/tree/main/img/Grupo1/Resposta_ii

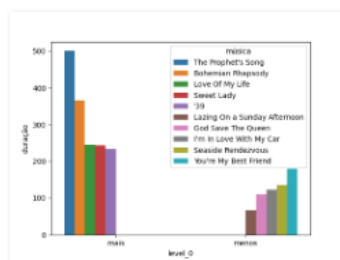
Prévia:



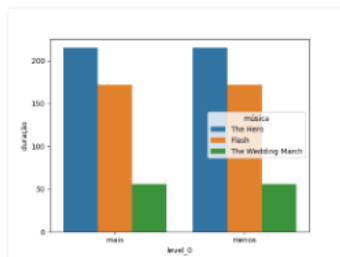
A Day At The Races



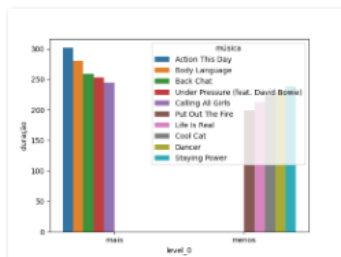
A Kind Of Magic



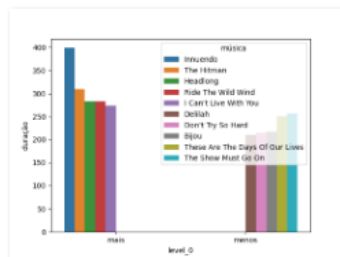
A Night At The Opera



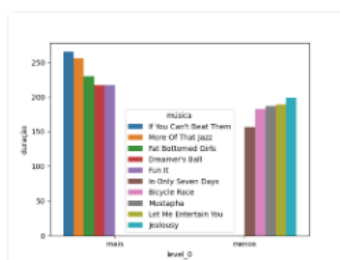
Flash Gordon



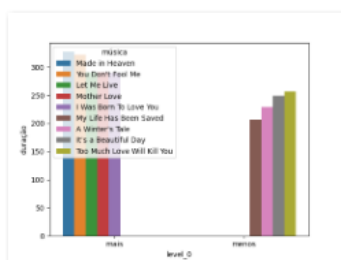
Hot Space



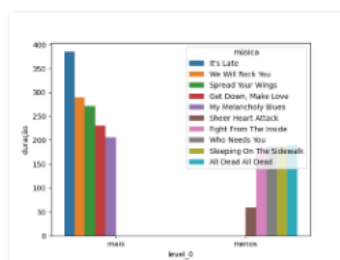
Innuendo



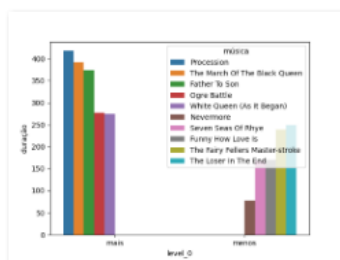
Jazz



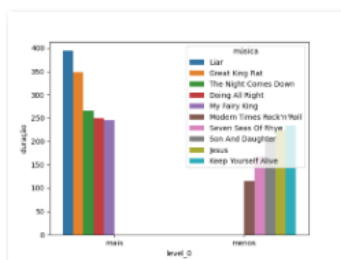
Made In Heaven



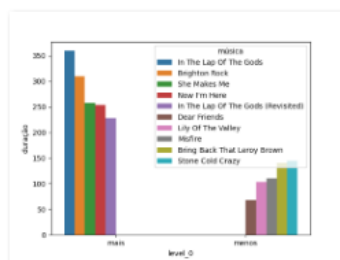
News Of The World



Queen II



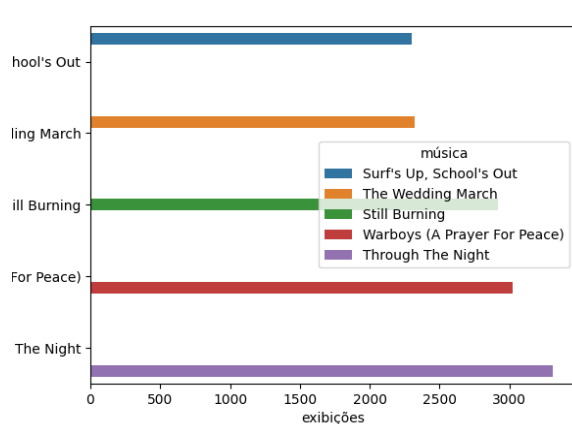
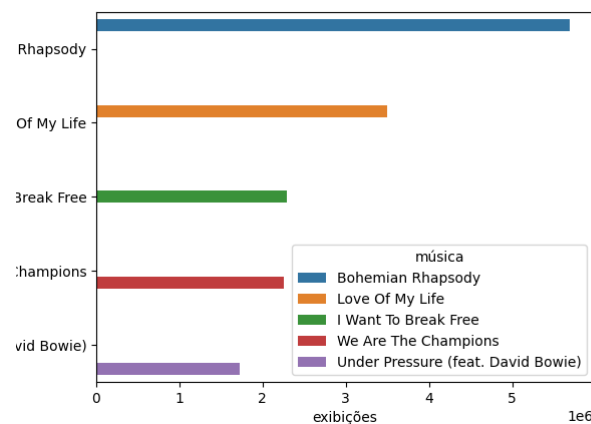
Queen



Sheer Heart Attack



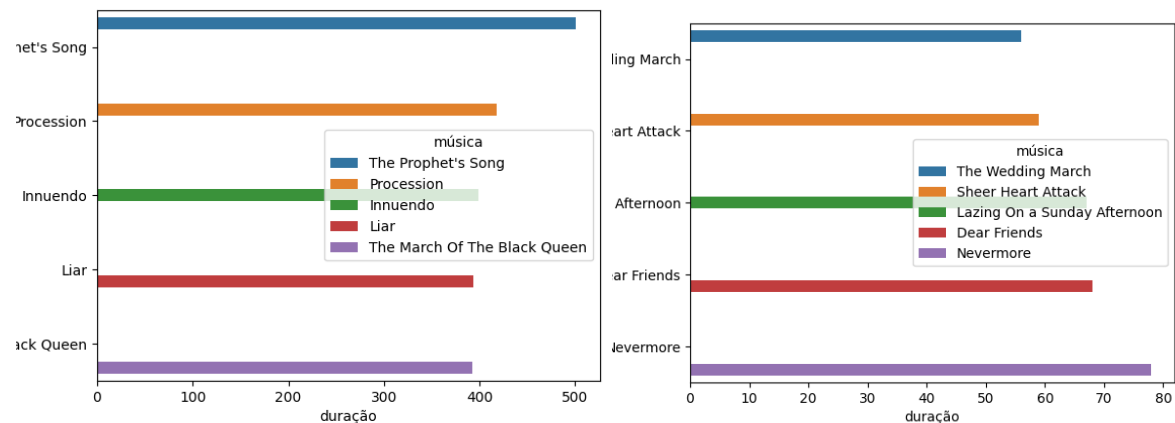
iii. Músicas mais ouvidas e músicas menos ouvidas [em toda a história da banda ou artista]



Link para pasta com gráficos:

https://github.com/luanahatab/lp_a1/tree/main/img/Grupo1/Resposta_iii

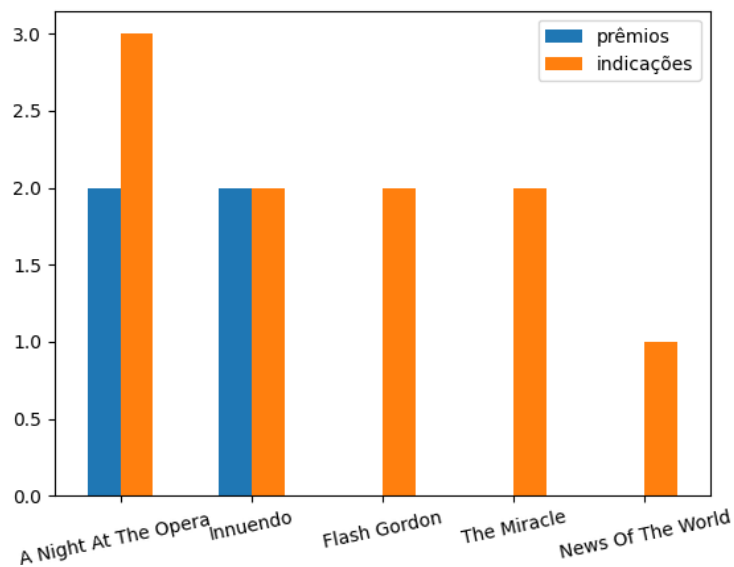
iv. Músicas mais longas e músicas mais curtas [em toda a história da banda ou artista]



Link para pasta com gráficos:

https://github.com/luanahatab/lp_a1/tree/main/img/Grupo1/Resposta_iv

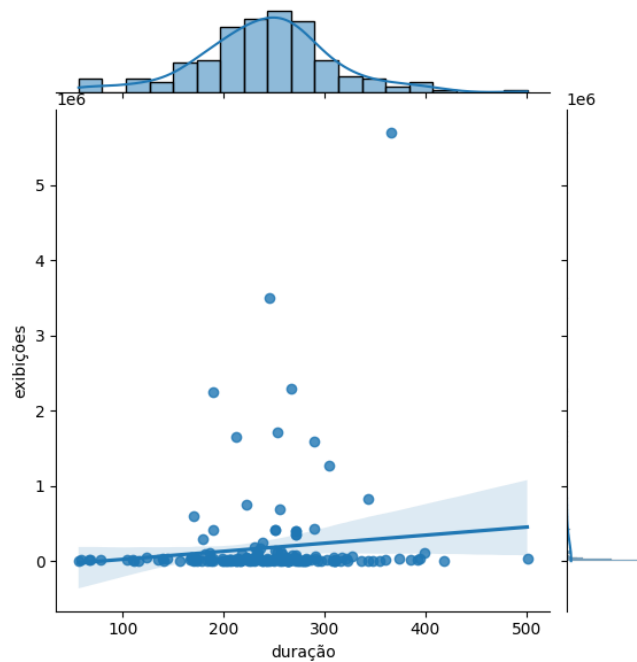
v. Álbuns mais premiados



Link para pasta com gráfico:

https://github.com/luanahatab/lp_a1/tree/main/img/Grupo1/Resposta_v

vi. Existe alguma relação entre a duração da música e sua popularidade?



Não há relação. Como podemos observar no gráfico, os dados não se ajustam à regressão linear. Ademais, concluímos pelo gráfico de barras acima que as músicas mais exibidas não são as mais longas, e sim as de média duração.

Link para pasta com gráfico:

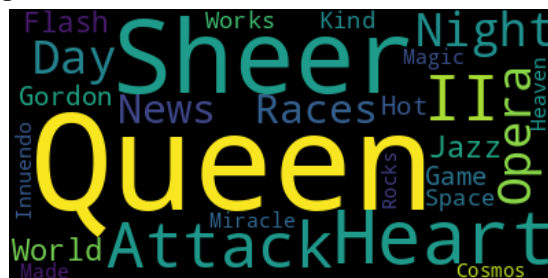
https://github.com/luanahatab/lp_a1/tree/main/img/Grupo1/Resposta_vi

Grupo de perguntas 2:

i. Quais são as palavras mais comuns nos títulos dos Álbuns?

Palavras mais comuns - título álbuns:		Palavras mais comuns filtradas - título álbuns:	
The	7	Queen	2
A	3	Sheer	1
Of	2	Cosmos	1
At	2	Heaven	1
Queen	2	Made	1

Visualização da resposta por wordcloud:



Parte do código (main) referente a resposta:

```
# palavras mais comuns no título dos álbuns
print("Palavras mais comuns - título álbuns:\n", f.words(albuns).value_counts().head(), sep="")
print("Palavras mais comuns filtradas - título álbuns:\n", f.words_n_stopwords(albuns).value_counts().head(), sep="")
f.wordcloud(albuns, "img/Grupo3/wordcloud_albuns.png")
```

ii. Quais são as palavras mais comuns nos títulos das músicas?

ii. Quais são os álbuns com maior e menor média de duração das músicas?

Em ordem crescente, os álbuns com maior e menor média de duração das músicas são:

álbum	
Flash Gordon	153.750000
Sheer Heart Attack	196.615385
Jazz	209.384615
The Game	216.100000
News Of The World	216.181818
A Night At The Opera	219.083333
Hot Space	244.363636
Queen	244.900000
A Day At The Races	250.000000
The Works	253.666667
A Kind Of Magic	263.583333
Queen II	263.818182
The Miracle	267.846154
The Cosmos Rocks	268.769231
Innuendo	269.583333
Made In Heaven	272.090909

iii. A quantidade de palavra está necessariamente relacionada ao tempo de duração da música? Retorne True se sim ou False se não.

False