Цель: реализовать базовый анализ датасета.

Для данной практической работый был выбран датасет spotify, так я меломан

```
import pandas as pd
# Загрузка датасета
dataset = pd.read_csv("file.csv")
# Вывод датасета
dataset
                     track id \
       6f807x0ima9a1j3VPbc7VN
0
1
       0r7CVbZTWZgbTCYdfa2P31
2
       1z1Hq7Vb0AhHDiEmnDE79l
3
       75FpbthrwQmzHlBJLuGdC7
4
       1e8PAfcKUYoKkxPhrHqw4x
       7bxnKAamR3snQ1VGLuVfC1
32828
       5Aevni09Em4575077nkWHz
32829
32830
      7ImMqPP3Q1yfUHvsdn7wEo
32831
       2m69mhnfQ10q6lGtXuYhgX
32832 29zWghca3zt5NsckZgDf6c
                                               track name
track artist \
       I Don't Care (with Justin Bieber) - Loud Luxur...
                                                                 Ed
Sheeran
                         Memories - Dillon Francis Remix
Maroon 5
                         All the Time - Don Diablo Remix
                                                               Zara
Larsson
                       Call You Mine - Keanu Silva Remix The
Chainsmokers
                 Someone You Loved - Future Humans Remix
                                                              Lewis
Capaldi
                    City Of Lights - Official Radio Edit
                                                               Lush &
32828
Simon
32829
                     Closer - Sultan & Ned Shepard Remix
                                                             Tegan and
Sara
32830
                            Sweet Surrender - Radio Edit
Starkillers
32831
                          Only For You - Maor Levi Remix
Mat Zo
32832
                                  Typhoon - Original Mix
                                                               Julian
Calor
```

0 1 2 3 4 32828 32829 32830 32831 32832	track_I	popular	ity t 66 67 70 60 69 42 20 14 15 27	rack_	20 20 20 20 20 20 20 20	919 - 06 - 919 - 12 - 919 - 07 - 919 - 03 -	-14 -13 -05 -19 -05 -28 • -08 • -21 •	Pop Pop Pop	Remix Remix Remix Remix Remix Remix Remix 2 Re	
		pla	aylis	t_id	playlist_g	genre				
0	st_subge 37i9dQ	enre \ ZF1DXcZ	DD7cf	- EKhW	_	pop			dance	
pop 1	37i9dQ	ZF1DXcZl	DD7cf	EKhW		pop			dance	
pop 2	37:040	ZF1DXcZl	DD7cf	EKhW		non			dance	
pop	•					pop				
3 pop	37i9dQ	ZF1DXcZI	DD7cf	EKhW		pop			dance	
4	37i9dQ	ZF1DXcZI	DD7cf	EKhW		pop			dance	
pop										
	C:T1.F	CANELT	OMT.	A 211					1	
32828 house	6)11gF	r6ANFtT	BIMM I V	A2UX		edm	progr	essive e	electro	
32829	6jI1gF	r6ANFtT	8MmTv	A2Ux		edm	progr	essive e	lectro	
house 32830	6jI1gF	r6ANFtT	8MmTv	A2Ux		edm	progr	essive e	lectro	
house 32831	6jI1gF	r6ANFtT	8MmTv	A2Ux		edm	progr	essive e	electro	
house 32832 house	6jI1gF	r6ANFtT	8MmTv	A2Ux		edm	progr	essive e	lectro	
House										
acoust		bility \	• • •	key	loudness	mode	spee	chiness		
0		0.748		6	-2.634	1		0.0583		
0.1020 1	90	0.726		11	-4.969	1		0.0373		
0.072400						0				
2 0.0794	90	0.675		1	-3.432	0		0.0742		
3 0.028700		0.718		7	-3.778	1		0.1020		
4		0.650		1	-4.672	1		0.0359		

0.080300					
				• •	
32828 0.076600	0.428	2 -	1.814	1	0.0936
32829	0.522	0 -	4.462	1	0.0420
0.001710 32830	0.529	6 -	4.899	0	0.0481
0.108000 32831	0.626	2 -	3.361	1	0.1090
0.007920 32832	0.603	5 -	4.571	0	0.0385
0.000133					
instrum 0 1 2 3	nentalness 0.000000 0.004210 0.000023 0.000009 0.000000	0.0653 0.3570 0.1100 0.2040 0.0833	valence 0.5180 0.6930 0.6130 0.2770 0.7250	tempo 122.036 99.972 124.008 121.956 123.976	duration_ms 194754 162600 176616 169093 189052
32828 32829 32830 32831 32832	0.000000 0.004270 0.000001 0.127000 0.341000	0.0668 0.3750 0.1500 0.3430 0.7420	0.2100 0.4000 0.4360 0.3080 0.0894	128.170 128.041 127.989 128.008 127.984	204375 353120 210112 367432 337500
[32833 rows x	21 columns]				

Создаем словарь columns_info, который содержит информацию о столбцах Dataset. Ключами словаря являются названия столбцов, а значениями - описания или объяснения для каждого столбца.

```
columns_info = {
    "track_album_id": "Просто id",
    "track_album_name": "Просто имя",
}
```

Вывод столбцов 'track_id': Уникальный идентификатор трека. 'track_name': Название трека. 'track_artist': Имя или название исполнителя трека. 'track_popularity': Популярность трека, выраженная числовым значением. 'track_album_release_date': Дата выпуска альбома, в котором содержится трек. 'playlist_name': Название плейлиста, в который входит трек. 'playlist_id': Уникальный идентификатор плейлиста. 'playlist_genre': Жанр плейлиста. 'playlist_subgenre': Поджанр плейлиста. 'danceability': Оценка танцевальности трека. 'energy': Оценка энергичности трека. 'key': Тональность трека. 'loudness': Громкость трека. 'mode': Какие то режима трека. 'speechiness': Оценка речевости трека. 'acousticness': Оценка акустичности трека. 'instrumentalness': Оценка инструментальности трека. 'liveness': Оценка живости трека. 'valence': Оценка позитивности трека. 'tempo': Темп или скорость трека. 'duration_ms': Продолжительность трека в миллисекундах.

Уникальные значения. Для каждого столбца в датасете выводится информация о его уникальных значениях.

```
for col in dataset.columns:
   unique values = dataset[col].unique()
   print(f"Уникальные значения колонки {col}: {unique values}")
Уникальные значения колонки track id: ['6f807x0ima9a1j3VPbc7VN'
'0r7CVbZTWZqbTCYdfa2P31'
 '1z1Hg7Vb0AhHDiEmnDE79l' ... '7ImMqPP3Q1yfUHvsdn7wEo'
 '2m69mhnfQ10q6lGtXuYhgX' '29zWqhca3zt5NsckZqDf6c']
Уникальные значения колонки track name: ["I Don't Care (with Justin
Bieber) - Loud Luxury Remix"
 'Memories - Dillon Francis Remix' 'All the Time - Don Diablo
Remix' ...
 'Sweet Surrender - Radio Edit' 'Only For You - Maor Levi Remix'
 'Typhoon - Original Mix']
Уникальные значения колонки track_artist: ['Ed Sheeran' 'Maroon 5'
'Zara Larsson' ...
 'Ferry Corsten feat. Jenny Wahlstrom' 'Tegan and Sara' 'Mat Zo']
Уникальные значения колонки track popularity: [ 66 67 70 60 69 62
                        8 30 56 55 59 87
68 58 63 65 35 64
 83 61 57 53 34 74 46 52 45 51 48 39 71 81 85 76 75
73
 79 16 84 37 36 72 77 82
                                41
                                     5
                                        24
                                            18
                                                47
                                                   80
                                                       96
                                                           86
                                                               19
27
 43 91 42 21 54
                    9 23 40
                               2 11 50
                                                       25
                                            10
                                                49
                                                   6
                                                           95
                                                               1
     29 38 17 31 26 32 12 44
                                   7 0
                                           13 78 88 94 22 98
 28
97
     93 92
            3 33 20 14 15 89 100 991
Уникальные значения колонки track album release date: ['2019-06-14'
'2019-12-13' '2019-07-05' ... '2012-02-06' '2012-11-11'
 '2014-04-18'1
Уникальные значения колонки playlist name: ['Pop Remix' 'Dance Pop'
'Dance Room' 'Cardio' 'Dance Pop Hits'
 'Pop Warmup 130 BPM' 'Dance Pop: Japan' 'K-Party Dance Mix'
 'Dance Pop Tunes' 'Pop / Dance' 'Todo Éxitos' '90s Dance Hits'
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'Christian Dance Party' 'Pop Dance Hits' 'Best of 2019 Dance Pop:
Japan'
 'Ultimate Indie Presents... Best Indie Tracks of the 2010s'
 'TUNES DANCE AND POP' 'Pop Inglés (2020 - 2010s)♡ Música En Inglés
2010s'
 'ELETRIC POP & DANCE' 'Pop - Pop UK - 2019 - Canadian Pop - 2019 -
Pop'
 'The Sound of Post-Teen Pop' 'Post teen pop'
 'post-teen alternative, indie, pop (large variety)'
 'Pop Punk | Post-Hardcore' 'Post pop teen' 'Intro to Post-Teen Pop'
 '□□Post Teen Pop□□' 'Someone You Loved Lewis Capaldi (Pop Music Mix)'
 "Dr. Q's Prescription Playlist⊘" 'a taste of the mainstream'
 'post teen pop' 'BALLARE - رقص' 'Post Teen Pop' 'Post-Teen Pop' 'Post-teen pop' 'post-teen pop' 'Electro Pop | Electropop' 'Electropop Hits 2017-2020' 'Electropop 2019' 'ELECTROPOP'
 'This Is: Javiera Mena' 'ElectroPop 2020' 'Electropop - Pop'
 'This Is Janelle Monáe' 'ELECTROPOP'®' 'Electropop 80/90s'
'Electropop'
 'Electropop And Play' 'Mix ElectroPop//ElectroHouse// DeepHouse 2020'
 'ELECTROPOP EN ESPAÑOL'
 'Maxi Pop GOLD (New Wave, Electropop, Synth Pop...)'
 'Gothic / Industrial / Mittelalter / EBM / Futurepop / Gothik /
Electropop'
 "80's Songs | Top 學 80s Music Hits" 'GTA V - Radio Mirror Park'
 'ElectroPop' '10er Plavlist'
 'Indie Poptimism (PUBLIC, The Band CAMINO, lovelytheband)'
 'Chillout & Remixes ♡' 'POPTIMISM' 'The Sound of Indie Poptimism'
 'Indie/Jazz Poptimism' 'The Edge of Indie Poptimism'
 '2019 in Indie Poptimism' 'Indie Poptimism'
 'A Loose Definition of Indie Poptimism' 'Intro to Indie Poptimism'
 'indie poptimism∜○' 'The Pulse of Indie Poptimism'
 "random playlist that can't decide its genre so go ahead jam along
with these catchy tunes"
 'Indie Poptimism!' 'indie poptimism' 'Music&Other Drugs'
 'Deep-deep Bubble Pop' 'RapCaviar' 'Jazz Vibes' 'Lush Lofi' 'RAP 91'
 'Lo-Fi Beats' 'Hip-Hop Central' 'Generacja Hip Hop' 'Hip-Hop Drive'
 'Hip Hop Controller' 'Hip-Hop Favourites' 'Al Hip-Hop' 'Hip-Hop
Mixtape'
 'DK rap' 'This Is Logic' 'Lofi Hip-Hop' 'Rap Workout'
 'Alternative Hip Hop' 'Modus Mio' 'Hip Te Hop' 'Arena Hip-Hop'
 'Southern Hip Hop' 'Southern California Hip Hop Primer'
 'Dirty South Rap Classics by DJ HOTSAUCE' "90's Southern Hip Hop"
 '90s-2000s Southern Hip Hop / Crunk' 'Viral Southern Hip Hop'
 '▶ Hip Hop Dance Music — Urban — Trap — Breaking Locking Popping
Bopping - WOD - World of Dance'
 'Badass Rock' 'The Sound of Southern Hip Hop' 'Southern Soul BBO Mix'
 "🕸💷 Hip Hop, Rap, Heavy 808's - New School" 'Minitruckin Playlist'
 "Hip-Hop 'n RnB" "90's Hip Hop Ultimate Collection" 'HIP&HOP'
 'Contemporary Hip Hop' '3rd Coast Classics' 'Southern soul & hip hop'
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'Gangster Rap' 'Gangster Rap Workout' 'Russian Gangster Rap'
 'Gangster Rap | 100 % Gangster' "Gangsta Rap/90's Hip-Hop"
 'Gangster Rap Deutsch' 'GTA San Andreas Radio Los Santos'
 '90s Hiphop / Gangsta Rap' 'Gangsta Rap ♥ Rap Party'
 'Oldschool Gangsta Rap ' 'GANGSTA Rap' "90's Gangster Rap" 'RAP
Ganasta'
 'RUSSIAN Gangster Rap' 'GANGSTA RAP'
 '90s Gangsta Rap / Top Hip-hop Classics' 'Mexican Gangsta Rap'
 'Rap Party 24/7 Radio / Gangsta Rap' '< DARK TRAP >' 'Zona Trap'
 'Trapperz Brasil' 'Trap Land' 'Trap strefa' 'Trapperz' 'Trap Nation'
 'Flow Selecto' 'Trapperz Argentina' 'Trap Mojito' 'Trap Ouro' 'Trap
 'Trap Rewind' 'Arabic Trap' 'Sad Trap' 'Dose Trap' 'Trap Nation 🐠'
 'Trap Argentino - Trap Argentina' 'Trap Luv' 'Trap 2020 🚳'
 'Trap Americana' "This Is Guns N' Roses" 'Michael Learns To Rock
album'
 'The Black Album' 'City Pop 1985 シティーポップ' 'The Cranberries Best
 'Vault: Def Leppard Greatest Hits' '80s Pop & Rock Hits and Album
Tracks'
 'Rock and Rios' 'Progressive Rock / Metal - Rock /Metal Progresivo'
 'Mega Rock Ballads: The Best Slow Rock Compilation Ever !'
 'House Of The Rising Sun' 'Coldplay - Ghost Stories (Deluxe Edition)'
 '70s Pop & Rock Hits and Deep Tracks' "L' ALBUM ROCK"
 'ONE OK ROCK with Orchestra Japan Tour 2018 Setlist'
 'The Queen - La Discografia Completa' 'Soda Stereo — El Ultimo
Concierto'
 "Nikki Sixx's Top Pixx" 'The Sound of Album Rock' 'Caifanes La
Historia'
 'Rock Classics' 'Classic Rock' 'Classic Rock Drive'
 'Classic Rock Workout' 'Pinoy Classic Rock' 'Classic Rock Now'
 'Soft Rock Drive' 'Supernatural Classic Rock' 'Classic Rock Legends'
 'Classic Rock 70s 80s 90s, Rock Classics - 70s Rock, 80s Rock, 90s
Rock Rock Classicos'
 'Southern Rock/Classic Rock' '80s / Classic Rock' 'Afro Psychedelica'
 'Classic Rock Retrogamer' 'Workday: Rock Classics'
 'Classic Rock Greatest Hits' 'Blues Rock' "70's Classic Rock"
 'Classic Rock Radio' 'Classic Rock Playlist.'
 'The Sound of Permanent Wave' 'Permanent wave'
 'Muse Radio - (Uprising, Starlight, Supermassive Black Hole,
Madness)'
 'Permanent Wave' 'Permanent wave ℓ' 'permanent wave' 'keg party
iukebox'
 'Intro to Permanent Wave' 'Permanent Wave CHDB' '2000 mixed'
 'SNZB PERMANENT WAVE' 'I didn't know perm stood for permanent (wave)'
 'Modern Indie Rock // Alternative Rock / Garage Rock / Pop Punk /
Grunge / Britpop / Pop Rock'
 'Permanent Wave Cafe' '"Permanent Wave"' 'Rock Hard' 'Hard Rock'
 ''80s Hard Rock' 'Hard Rock Workout' 'This Is Scorpions' 'HARD ROCK
```

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CAFE'
 'Hard Rock Cafe Classics' 'Hard Rock Workout!' 'Classic Hard Rock'
 'Workout Hard Rock' 'Rock Hubspot' 'HARD ROCK Vibes' 'New Hard Rock'
 "Rock Ballads 80s 90s | Best Rock Love Songs 80's 90's Music Hits"
 '70s Hard Rock' 'Hard Rock Classics 1967-1991 (Party Edition)'
 "2000's hard rock" 'Tropical House' 'Paraiso Tropical' 'Vibra
Tropical'
 'Tropical Vibes' 'Punto Tropical' 'Orgulho Tropical'
 'Tropical House 🗟 2020 Hits' 'Tropical House 🤻' 'TROPICAL*'
 'Tropical Rising' 'Sunny Beats' 'Tropical Nights' 'Tropical Beats'
 'Tropical House Remixes 🖣 Tropical Remixes & Tropical Covers'
 'Tropical House 2020' 'Tropical Morning' 'Paraíso Tropical'
 'EDM TROPICAL' 'Tropical House Run 190 BPM' 'Latin Pop Classics' 'Latin Pop VIP' 'Global X' 'Latin Pop Rising'
 'LATIN POP 2020 🕸 Pop latino actual' 'MIX LATIN POP°'
 'This Is Gloria Estefan' 'Latin Pop antiguo' 'Unplugged Hits 🄊'
 'Latin Pop Songs' 'F**KIN PERFECT'
 'Pop Latino 2019 - Mix Canciones Reggaeton & Pop Latino - Pop En
Español 2019 Musica Para Bailar'
 '2020 Hits & 2019 Hits — Top Global Tracks 🕸 🕸 🛎 ' 'INDIE POP! TUNES'
 'RADIO POP CHARTS' 'LATIN POP- DJ GIAN' 'Fiesta Latina Mix ♀鱗嗲○ᇵ○
 'Exitos 2020 - Latin Billboard' 'Latin Pop 2019' 'Great Pops'
 'Baila Reggaeton' 'Mansión Reggaetón' 'Reggaeton 2020 *'
 'Reggaeton Classics' 'Perreo City' 'De Fiesta' 'El Ritmo' '¡Viva
Latino!'
 'Reggaeton De Aver'
 'Tusa - Karol G | China - Anuel AA | Estrenos Reggaeton y Música
Urbana 2019'
 'Verano Forever' 'Reggaeton Rewind' 'REGGAETON ANTIGUO 👑'
 'Academia Reggaetón' 'REGGAETON VIEJO' 'Todo Reggaeton'
 'Reggaeton 2020 ☺ ☺' 'Reggaeton viejitoভ' 'This Is: Don Omar'
 'latin hip hop' 'Latin Hip Hop/Freestyle' 'Chicano Rap'
 'Global Top 50 | 2020 Hits' 'Latin Village 2019' 'Urbano: Latino
Vibes'
 'Latest Latin American Hits 2020' 'Latin Hip Hop & Rap Playlist 2019'
 'Pop 2009-2011' 'Latin/Hip Hop/Dancehall/Soca'
 "80's Freestyle/Disco Dance Party (Set Crossfade to 4-Seconds)"
 "Today's Hits 2000-Present" 'VidaLoca - Latin / Raggaeton / Hip Hop
 '♨ GOOD VIBES ONLY ☜♨ // BROEDERLIEFDE || FRENNA || BROEDERS ||
HENKIE T || BIZZEY || POKE \\\\'
 'LATIN FLOW MIX - Música Cristiana憑'
 'Hot Latino Mix (Latin, Hip Hop, Rap, RnB, Dancehall, Reggeaton,
 "HIP-HOP: Latin Rap ['89-present]" 'School Dance 2019 (Squeaky
Clean)'
 'Los Cangri' 'New Hip Hop\u200f\u200f\u200b\u200b \u200d'
 'Contemporary Urban' 'URBAN NATION' 'Most Popular 2020 TOP 50'
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'New R&B\u200f\u200f\u200b\u200b \u200d' 'Top Urban Underground'
 'Urban Contemporary' 'The Sound of Urban Contemporary'
 'Chixtape 5 - Tory Lanez' 'urban contemporary' 'Urban contemporary'
 'PROJECT: Contemporary' 'Urban/Trap - Contemporary RAP'
 'urban CONTEMPORARY' 'Gospel' 'Cuban vibes only'
 'The 1950s/1960s/1970s/1980s/1990s/2000s/2010s with
pop/r&b/soul/boogie/dance/jazz/hip hop/hop/rap.'
 'Brisa Pop' 'Pop Hits 2020'
 'Ultimate Indie Presents... Best Tracks of 2019' 'Feeling
Accomplished'
 'Pop / Hip-Hop: Gas 🗟 '
 'Charts 2020 ७Top 2020७Hits 2020७Summer 2020७Pop 2020७Popular
Music⊗Clean Pop 2020⊗Sing Alongs'
 'Girl On Fire' 'Hip pop' 'Nidza Bleja - English HIP HOP/POP Songs'
 '90s/00s Hip Hop & RnB' 'TOP 50 GLOBAL 2020 UPDATED WEEKLY 🖫
WORLDWIDE'
 'Hip Pop 2019' 'Bluegrass Covers' 'Latest Hits 2020 - Pop, Hip Hop &
 'Musica Italiana 2020 - Playlist Pop & Hip-Hop (Canzoni Italiane
2020)'
 "Today's Hits (Clean)" 'Smooth Hip Hop' 'Fresh Essentials'
 'New Jack Swing' 'New Jack Swing - 90s R&B fused w Hip Hop' 'New Jack Swing/ R&B Hits: 1987 - 2002' "90's NEW JACK SWING"
 'Swingbeat (old skool), New Jack Swing, R&B, Hip Hop, Urban'
 'New Jack City' '90s R&B - The BET Planet Groove/Midnight Love Mix'
 'New Jack Swing | The Best 👌 ' 'Ultimate Throwbacks Collection'
 'Back in the day - R&B, New Jack Swing, Swingbeat, RNB..etc.'
 'CSR 103:9 (GTA: SA)' 'Best of New Jack Swing'
 "New Jack Swing -late 80's & early 90's Hip Hop and R&B"
 'The Sound of New Jack Swing' 'The New (Jack Swing) Testament'
 '80s-90s R&B / New Jack Swing / Funk / Dance / Soul'
 "Kenny B's Ultimate New Jack Swing Mix" "R&B 80's/90's/00's"
 '1987-1997 OLD SKOOL JAMZ' 'I Love My Neo-Soul' 'Neo Soul Music'
 'Neo-Soul' 'Neo-Soul Guitar' 'NEO SOUL GUITAR'
 'Neo Soul / Modern Jazz / Smooth Hiphop' 'NEO-soul'
 'Groovy // Funky // Neo-Soul' 'Christmas Soul' 'Neo-Soul / Soulful
R&B'
 'Neo Soul 2019' 'NEO FUNK AND SOUL' 'Neo Soul'
 'Saxophone in Hip Hop - R&B Lounge - Jazz Rap'
 'Japanese Funk/Soul/NEO/Jazz/Acid' 'Neo-Jazz Soul RnB & Afro'
 'Gospel Neo Soul' 'Soul Coffee (The Best Neo-Soul Mixtape ever)'
 'Neo-Soul Essentials' 'Sexy Soul 2020' 'Electro House 2020'
 'Electro House Top Tracks' 'Nasty Bits' 'Electro Posé - Discoveries'
 'Techno House 2020 🥯 Best Collection 🕾 Top DJ's Electronic Music -
Deep House - Trance - Tech House - Dance - Electro Pop'
 'EDM 2020 House & Dance' 'Electro Vibes' 'Electro Swing Top 100'
 'Electro Swing' 'Electro House' 'ELECTRO HOUSE 2020' 'New House \
u200d'
 'Jeff Seid Electro House' 'Crossfit\u200f\u200f\u200b\u200b\\u200d'
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"Electro House - by Spinnin' Records" '⊘ELECTRO-HOUSE-TECH⊘'
 'Fitness Workout Electro | House | Dance | Progressive House'
 'Club Mix 2020 💖' 'House Electro 2019'
 '➪>BASSBOOSTED➪>≤ELECTRO HOUSE≤⇔EDM CAR MUSIC2018/2019⇔' 'Big Room
EDM'
 'Big Room Beast' 'Big Room House | Festival Bangers'
 'PAROOKAVILLE - Big Room' 'Big Room House / Bigroom'
 "Big Room EDM - by Spinnin' Records" 'BIG-ROOM NEVER DIES !'
 'Dancefloor Beats' 'Bounce United' 'Locker Room'
 'Sick Big Room House Drops | EZUMI'
 'big boom room — TOMORROWLAND EDC EDM BIG ROOM AMF ADE DANCE TRANCE
HARDWELL TIESTO'
 'Trance Party 2019 by FUTURE TRANCE' 'SINULOG Festival 2020'
 '[EAS]: Festival Big Room' 'Big White Room-Jessie-J' 'Big Room House'
 'ALPAS Music Festival' 'Epic Bass Drops' 'Big Room 2019'
 '@deniceemoberg EDM - POP REMIXES' 'EDM House & Dance' 'Pop EDM
Remixes'
 'EDM 2019' 'Waves Pop and EDM' 'Pop Hits 2000-2019' 'EDM - pop
 'Verão 2020 | Pop | Funk | Sertanejo | EDM | Top Hits 2019 - As Mais
Tocadas'
 '2010 - 2011 - 2012 - 2013 - 2014 - 2015 - 2016 - 2017 - 2018 - 2019
- 2020 TOP HITS'
 'K-Crazy Michioso Tunes' 'EDM Trap' '2015 songs' 'Pop EDM'
 'Tastemakers Ball - EDM - POP and FUN' 'EDM Pop' 'Happy EDM'
'EDM/POP'
 'Selected House' 'Deep Electronic Music 2020 & Progressive House'
 'Female Vocal EDM' 'Vocal House'
 'Hands Up\u200f\u200f\u200b\u200b
                                    \u200d'
 'House/Electro/Progressive/Disco/Lofi/Synthwave' 'Alex Workout'
 '2011-2014 House' 'Electro/Progressive/Club House'
 'CHRISTIAN ELECTRO / DANCE / EDM' 'Epic Bass Drops | Best House
Mixes'
 'Brand New EDM' 'Electrónica, Progressive House, Electro House y
más 🞧 '
 'Gym (Melbourne Bounce/Progressive House)'
 'Fresh EDM | Progressive House | Electro House | Trap | Deep House |
Electronic | Future House/Bass'
 'Festival Music 2019 - Warm Up Music (EDM, Big Room & Progressive
House)'
 'Underground Party | Hypnotic | Minimal | Acid | Big Room | Tech |
Liquid'
 'Trending EDM by Nik Cooper' '♥ EDM LOVE 2020']
Уникальные значения колонки playlist id: ['37i9dQZF1DXcZDD7cfEKhW'
'37i9d0ZF1DWZQaagNMbbXa'
 '37i9d0ZF1DX2ENAPP1Tved' '37i9d0ZF1DWSJHnPb1f0X3'
 '37i9d0ZF1DX6pH08wMhkaI' '37i9d0ZF1DX3PIAZMcbo2T'
 '37i9dQZF1DXahYFr91pFvG' '37i9dQZF1DX4RDXswvP6Mj'
 '0B2HdP15IucgE0vk3sluJR' '4SdfG4cPG3skmTiQLozZGh'
```

```
'6mXh8CUBMBsBUu88a4eAQV'
                          '2ji5tRQVfnhaX1w9FhmSzk'
                          '37i9dQZF1DWUUP00Sbx2CM'
'50cXvxgMGrvoUeLhkzCyIO'
'7eERKCkgNKCCx5GYdeMIZf'
                          '37i9dQZF1DXdOtZGKonFlM'
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'1G0q0NK7g3C0XerNqq7GbL'
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 '29jj7pQlDqnWclbHQk21Rq'
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 '6jI1gFr6ANFtT8MmTvA2Ux']
Уникальные значения колонки playlist genre: ['pop' 'rap' 'rock'
'latin' 'r&b' 'edm']
Уникальные значения колонки playlist subgenre: ['dance pop' 'post-teen
pop' 'electropop' 'indie poptimism' 'hip hop'
 'southern hip hop' 'gangster rap' 'trap' 'album rock' 'classic rock'
 'permanent wave' 'hard rock' 'tropical' 'latin pop' 'reggaeton' 'latin hip hop' 'urban contemporary' 'hip pop' 'new jack swing'
 'neo soul' 'electro house' 'big room' 'pop edm'
 'progressive electro house']
Уникальные значения колонки danceability: [0.748
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0.752 0.564 0.618 0.672 0.547 0.767 0.721 0.63 0.704 0.639 0.645 0.645 0.645 0.645 0.715 0.465 0.826 0.834 0.785 0.428 0.495 0.883 0.881 0.754 0.557 0.558 0.558 0.558 0.558 0.558 0.558 0.780 0.780 0.780 0.780 0.780 0.780 0.881 0.785 0.881 0.881 0.881 0.881 0.881 0.881 0.881 0.8826 0.883	0.607 0.669 0.661 0.581 0.673 0.466 0.781 0.532 0.765 0.904 0.745 0.809 0.711 0.555 0.836 0.74 0.761 0.832 0.407 0.568 0.740 0.568 0.794 0.637 0.531 0.637 0.531 0.637 0.531 0.637 0.531 0.637 0.799 0.533 0.799 0	0.714 0.77 0.571 0.643 0.699 0.434 0.57 0.604 0.627 0.772 0.53 0.683 0.516 0.605 0.527 0.631 0.722 0.847 0.599 0.566 0.817 0.819 0.541 0.727 0.756 0.798 0.757 0.756 0.798	0.775 0.513 0.652 0.674 0.647 0.837 0.551 0.432 0.664 0.552 0.845 0.707 0.382 0.401 0.571 0.549 0.539 0.613 0.797 0.688 0.667 0.585 0.797 0.585 0.758 0.553 0.758	0.814 0.72 0.706 0.691 0.655 0.514 0.638 0.577 0.657 0.657 0.657 0.724 0.438 0.769 0.425 0.862 0.749 0.543 0.505 0.741 0.575 0.502 0.757 0.438 0.769 0.425 0.749 0.543 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.505 0.741 0.741 0.757 0.7	0.784 0.294 0.404 0.653 0.79 0.842 0.503 0.759 0.632 0.747 0.493 0.685 0.621 0.771 0.461 0.787 0.697 0.697 0.616 0.544 0.796 0.52 0.483 0.71 0.885 0.815 0.624 0.796 0.52 0.483 0.71 0.885 0.815 0.624 0.796 0.52 0.483 0.796 0.52 0.483 0.534 0.685 0.685 0.624 0.796 0.52 0.632 0.796 0.632 0.796 0.796 0.897 0.897 0.897 0.897 0.897 0.796 0.897 0.8	0.367 0.665 0.876 0.734 0.611 0.509 0.658 0.651 0.712 0.687 0.695 0.866 0.751 0.868 0.751 0.868 0.751 0.868 0.751 0.868 0.751 0.868 0.751 0.868 0.751 0.868 0.751 0.868 0.751 0.868 0.751 0.868 0.751 0.868 0.751 0.868 0.751 0.868 0.777 0.777	0.591 0.46 0.802 0.55 0.619 0.737 0.851 0.825 0.66 0.733 0.447 0.448 0.659 0.705 0.554 0.565 0.725 0.612 0.565 0.725 0.612 0.565 0.725 0.646 0.725 0.646 0.725 0.656 0.725	0.59 0.362 0.906 0.703 0.575 0.584 0.596 0.738 0.795 0.608 0.517 0.731 0.739 0.592 0.717 0.414 0.635 0.803 0.392 0.839 0.424 0.853 0.424 0.576 0.585 0.424 0.576 0.589 0.589 0.424 0.576 0.589 0.424 0.576 0.589 0.424 0.576 0.589 0.424 0.576 0.589 0.424 0.576 0.589 0.424 0.576 0.589 0.424 0.576 0.589 0.424 0.576 0.589 0	0.791 0.686 0.753 0.44 0.768 0.743 0.654 0.945 0.529 0.561 0.818 0.489 0.792 0.689 0.677 0.468 0.361 0.729 0.729 0.615 0.634 0.524 0.524 0.583 0.773 0.811 0.824 0.856 0.494 0.562 0.373 0.303 0.494 0.562 0.373 0.303 0.562 0.494 0.562 0.563 0.773 0.810 0.773 0.811 0.824 0.856 0.856 0.877 0.856 0.877 0.856 0.877 0.856 0.773 0.774 0.775 0.7
0.883 0.431 0.388 0.435 0.491 0.882 0.384	0.56 0.41 0.359 0.228 0.623 0.897 0.451	0.321 0.38 0.412 0.204 0.965 0.861 0.255	0.698 0.371 0.521 0.285 0.874 0.519 0.546	0.353 0.357 0.479 0.47 0.309 0.496 0.279	0.351 0.381 0.456 0.444 0.358 0.918 0.334	0.463 0.35 0.341 0.525 0.73 0.268 0.274	0.377 0.308 0.423 0.283 0.378 0.788 0.859	0.429 0.323 0.49 0.364 0.873 0.487 0.411	0.548 0.272 0.455 0.485 0.439 0.569 0.804
0.292	0.909	0.336	0.761	0.854	0.95	0.946	0.898	0.905	0.801

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01
7.88e-01 8.58e-01 5.05e-01 7.99e-01 8.00e-01 9.21e-01 6.60e-01 6.99e-
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 6.03e-01 2.09e-01 3.40e-01 5.17e-01 3.08e-01 9.80e-01 9.69e-01 9.48e-
 9.44e-01 6.28e-01 2.10e-01 9.81e-01 9.08e-01 8.75e-01 9.41e-01 6.71e-
 9.51e-01 9.53e-01 9.75e-01 9.37e-01 9.33e-01 5.51e-01 9.74e-01 4.30e-
9.47e-01 9.99e-01 9.66e-01 9.88e-01 9.42e-01 8.22e-01 9.98e-01 8.29e-
 9.96e-01 8.78e-01 9.63e-01 8.43e-01 5.46e-01 5.52e-01 6.83e-01 3.30e-
 5.92e-01 6.34e-01 4.12e-01 6.11e-01 7.59e-01 7.62e-01 6.86e-01 7.77e-
9.62e-01 7.56e-01 5.36e-01 8.92e-01 8.77e-01 5.01e-01 6.32e-01 5.99e-
7.03e-01 7.43e-01 5.78e-01 9.36e-01 8.03e-01 9.32e-01 6.29e-01 7.20e-
7.67e-01 6.09e-01 5.28e-01 4.59e-01 5.70e-01 9.49e-01 6.27e-01 7.78e-
 6.76e-01 4.37e-01 6.75e-01 8.24e-01 4.82e-01 8.49e-01 9.20e-01 6.00e-
2.57e-01 8.71e-01 2.55e-01 3.13e-01 5.48e-01 4.28e-01 3.04e-01 3.89e-
 5.49e-01 1.72e-01 5.55e-01 2.51e-01 4.76e-01 2.63e-01 4.11e-01 4.81e-
 6.95e-01 4.20e-01 4.35e-01 3.86e-01 5.59e-01 1.82e-01 5.72e-01 3.65e-
1.12e-01 1.99e-01 6.39e-01 5.22e-01 4.14e-01 5.90e-01 4.40e-01 2.83e-
 5.29e-01 4.00e-01 4.55e-01 2.14e-01 3.39e-01 8.07e-01 3.28e-01 2.31e-
3.25e-01 6.26e-01 3.45e-01 6.81e-01 4.34e-01 5.02e-01 7.49e-01 9.57e-
01
```

```
4.49e-01 1.96e-01 6.40e-01 3.21e-01 6.49e-01 3.97e-01 4.38e-01 2.64e-
4.70e-01 4.98e-01 6.63e-01 6.48e-01 1.47e-01 4.51e-01 2.89e-01 6.20e-
3.91e-01 6.19e-01 4.66e-01 1.86e-01 4.48e-01 4.08e-01 5.58e-01 4.88e-
5.80e-01 4.41e-01 2.67e-01 6.41e-01 4.67e-01 4.91e-01 2.90e-01 8.45e-
5.30e-01 6.58e-01 4.07e-01 4.43e-01 9.22e-01 4.10e-01 1.67e-01 4.58e-
4.24e-01 2.79e-01 8.14e-03 9.17e-02 3.49e-01 4.95e-01 3.50e-01 2.85e-
3.42e-01 3.05e-01 3.43e-01 5.66e-01 4.64e-01 4.73e-01 1.54e-01 4.96e-
2.60e-01 5.53e-01 5.11e-01 5.10e-01 9.59e-01 3.57e-01 4.92e-01 9.82e-
9.67e-01 4.22e-01 3.71e-01 9.58e-01 4.84e-01 8.86e-01 8.96e-01 6.10e-
5.06e-01 5.44e-01 2.91e-01 4.79e-01 4.85e-01 4.89e-01 3.79e-01 6.15e-
4.93e-01 3.88e-01 3.17e-01 4.61e-01 5.54e-01 5.76e-01 8.52e-01 6.38e-
5.42e-01 3.82e-01 5.87e-01 4.36e-01 6.55e-01 9.87e-01 4.62e-01 4.72e-
5.14e-01 4.23e-01 3.98e-01 4.78e-01 5.04e-01 4.39e-01 4.75e-01 3.51e-
5.81e-01 6.18e-01 6.80e-01 1.46e-01 4.56e-01 3.99e-01 3.69e-01 4.50e-
3.19e-01 6.02e-01 4.69e-01 4.57e-01 8.76e-01 6.92e-01 5.95e-01 5.86e-
4.46e-01 5.89e-01 6.04e-01 5.39e-01 4.06e-01 4.80e-01 5.35e-01 3.12e-
3.64e-01 2.69e-01 4.45e-01 3.46e-01 4.31e-01 6.79e-01 4.60e-01 7.01e-
5.31e-01 4.74e-01 6.91e-01 4.18e-01 5.32e-01 3.27e-01 5.63e-01 3.96e-
9.72e-01 2.68e-01 9.71e-01 5.16e-01 2.03e-01 3.56e-01 3.73e-01 5.18e-
4.13e-01 4.33e-01 4.65e-01 3.47e-01 8.79e-02 6.92e-02 9.83e-01 2.35e-
4.19e-01 3.92e-01 3.38e-01 5.56e-01 3.81e-01 4.32e-01 3.33e-01 5.34e-
3.61e-01 9.48e-02 9.58e-02 5.61e-01 3.54e-01 4.04e-01 4.42e-01 4.83e-
9.76e-01 9.86e-01 9.12e-01 2.40e-01 3.80e-01 9.85e-01 9.97e-01 3.31e-
9.90e-01 9.89e-01 9.52e-01 9.94e-01 4.99e-01 2.95e-01 2.71e-01 6.54e-
3.87e-01 9.73e-01 2.75e-01 2.96e-01 1.89e-01 2.29e-01 2.92e-01 2.52e-
```

```
01
3.06e-01 3.22e-01 5.37e-01 5.15e-01 4.47e-01 3.11e-01 4.87e-01 4.94e-
 5.27e-01 2.54e-01 3.48e-01 3.37e-01 2.22e-01 3.76e-01 3.66e-01 3.63e-
1.93e-01 2.76e-01 3.84e-01 1.95e-01 4.15e-01 1.35e-01 1.77e-01 1.98e-
 3.52e-01 3.16e-01 3.44e-01 3.32e-01 2.98e-01 2.46e-01 3.77e-01 1.85e-
 1.39e-01 2.93e-01 4.90e-01 1.57e-01 2.16e-01 2.88e-01 2.12e-01 3.70e-
 3.83e-01 2.80e-01 2.21e-01 2.72e-01 3.24e-01 2.38e-01 1.69e-01 3.53e-
3.59e-01 3.60e-01 1.60e-01 2.37e-01 2.99e-01 3.02e-01 3.94e-01 2.47e-
3.34e-01 8.73e-02 4.44e-01 2.61e-01 2.77e-01 4.26e-01 9.91e-01 3.29e-
 2.43e-01 3.72e-01 3.55e-01 2.48e-01 5.13e-01 3.62e-01 3.15e-01 3.90e-
3.00e-01 5.08e-01 3.01e-01 4.17e-01 3.07e-01 2.06e-01 4.36e-02 5.12e-
 1.15e-01 1.88e-01 4.21e-01 2.94e-01 3.58e-01 3.68e-01 1.78e-01 4.09e-
2.87e-01 8.11e-02 5.81e-02 2.05e-01 3.75e-01 1.11e-01 7.72e-02 1.83e-
 1.01e-01 1.26e-01 5.33e-02 1.91e-01 4.03e-01 5.77e-01 2.44e-01 2.45e-
3.41e-01 2.19e-01 1.23e-01 3.36e-01 3.18e-01 1.50e-01 2.36e-01 1.61e-
1.97e-01 1.36e-01 4.02e-01 6.74e-02 2.24e-01 3.14e-01 9.86e-02 4.52e-
 1.90e-01 1.66e-01 1.76e-01 2.62e-01 2.66e-01 2.28e-01 1.79e-01 6.71e-
1.33e-01 1.48e-01 3.83e-02 2.42e-01 1.92e-01 1.61e-02 3.89e-02 2.17e-
 1.65e-01 2.02e-01 2.11e-01 3.75e-02 2.07e-01 1.24e-01 2.65e-01 2.58e-
 1.03e-01 1.05e-01 2.23e-01 1.87e-01 8.81e-02 1.94e-01 1.49e-01 9.24e-
7.53e-02 6.44e-02 8.74e-02 3.09e-01 1.70e-01 8.32e-02 2.13e-01 2.32e-
2.27e-01 3.10e-01 1.34e-01 2.34e-01 2.00e-01 1.44e-01 1.30e-01 6.68e-
7.01e-02 1.64e-01 5.26e-02 2.41e-01 1.41e-01 1.75e-01 3.23e-01 2.26e-
1.52e-01 2.53e-01 1.16e-01 2.04e-01 1.55e-01 1.37e-01 2.56e-01 2.73e-
2.39e-01 2.59e-01 7.13e-02 9.78e-01 3.93e-01 2.20e-01 3.95e-01 4.01e-
01
```

```
2.74e-01 1.71e-01 3.85e-01 3.74e-01 2.08e-01 3.03e-01 2.70e-01 9.70e-
01
 9.84e-01 8.62e-02 6.09e-02 1.04e-01 2.84e-01 1.32e-01 8.67e-02 2.86e-
3.35e-01 1.51e-01 8.97e-02 2.97e-01 2.81e-01 7.25e-02 4.55e-02 7.65e-
1.59e-01 1.40e-01 3.78e-01 3.67e-01 2.18e-01 1.45e-01 2.78e-01 1.29e-
01
8.61e-02 6.95e-02 9.28e-02 1.84e-01 1.74e-01 1.07e-01 1.67e-02 2.82e-
01
1.27e-01 1.68e-01 9.26e-02 2.50e-01 1.00e+00 1.75e-04 6.03e-02 7.47e-
02
1.28e-01 3.26e-01 2.01e-01 2.15e-01 1.56e-01 2.97e-02 1.13e-01 1.31e-
01
1.38e-01 1.25e-01 3.60e-02 1.18e-02 2.33e-01 1.81e-01 2.30e-01 5.65e-
6.47e-02 5.86e-02 5.61e-02 1.22e-01 1.53e-01 1.62e-01 9.52e-02 2.49e-
7.50e-02 8.48e-02 8.23e-02 2.86e-02 7.97e-02 7.67e-02 6.58e-02 3.23e-
1.21e-01 8.58e-02 9.04e-02 1.08e-01 1.43e-01 1.42e-01 4.74e-02 1.06e-
01]
Уникальные значения колонки key: [ 6 11 1 7 8 5 4 2 0 10 9 3]
Уникальные значения колонки loudness: [-2.634 -4.969 -3.432 ... -3.312
-0.378 -1.814]
Уникальные значения колонки mode: [1 0]
Уникальные значения колонки speechiness: [0.0583 0.0373 0.0742 ...
0.0231 0.624 0.578 ]
Уникальные значения колонки acousticness: [1.02e-01 7.24e-02 7.94e-
02 ... 6.26e-04 4.77e-05 4.34e-04]
Уникальные значения колонки instrumentalness: [0.00e+00 4.21e-03
2.33e-05 ... 8.05e-04 4.67e-05 8.35e-031
Уникальные значения колонки liveness: [0.0653 0.357 0.11 ... 0.0323
0.74
       0.787 ]
Уникальные значения колонки valence: [0.518 0.693 0.613 ... 0.0639
0.05
       0.09271
Уникальные значения колонки tempo: [122.036 99.972 124.008 ...
132.048 112.028 128.17 ]
Уникальные значения колонки duration ms: [194754 162600 176616 ...
353120 210112 367432]
```

Сортировка датасета по указанной колонке в возрастающем порядке

11645 Rios	3mXBM0LLk0bemiuCHyvQ9S	El Laberinto - Live	Miguel
18994 Y	4EoDcHQ7l0j4RGgRibFLXh	Un Sueño	R.K.M & Ken-
19127	4YAcCjGlRfpcFLyxiI54K7	No Es Culpa Mía	
DY 19160	76tsb1MlePUaN0Y3R8w0K0	Web Cam	
Farruko 19168 Gorilla	54rF70kHKlNJFuePn7sBsJ	Sexo Seguro	Franco "El
21468 Zervas	696DnlkuD0XcMAnKlTgXXK	ROXANNE	Arizona
20092 Zervas	696DnlkuD0XcMAnKlTgXXK	ROXANNE	Arizona
23104 Zervas	696DnlkuD0XcMAnKlTgXXK	ROXANNE	Arizona
1551 I	2XU0oxnq2qxCpomAAuJY8K	Dance Monkey	Tones and
20091 I	2XU0oxnq2qxCpomAAuJY8K	Dance Monkey	Tones and
11645 18994 19127 19160 19168 21468 20092 23104 1551 20091 11645 18994 19127 19160 19168 21468 20092 23104 1551 20091	track_popularity track_	2005-01-01 2007-01-01 2017-05-24 2015-08-28 2009-01-01 2019-10-10 2019-10-10 2019-10-17 2019-10-17 2019-10-17 Contemporary U Global Top 50 2020 Hits 2020 Summer 2020	Rios ssics Ayer Ayer Ayer Jrban Hits D&Po
	playlist_id	playlist_genre play	list_subgenre \

11645 18994 19127	37i9dQ2 37i9dQ2	KEi8QWv ZF1DX8S ZF1DWWU	fyqmS 6Rfto	FDwe 8Ppm		roc lati lati	.n .n		regg regg	m rock gaeton gaeton	
19160 19168	•	ZF1DWWU ZF1DWWU				lati lati	.n			gaeton gaeton	
21468 20092 23104	1KN14AY 3xMQTDI	sjZaUKa /fgZtOV _OIGvj3	m9KHk lWH5e	hPTF 5x6F		r& lati r&	kb i .n kb	l		ip hop ip pop	
1551 20091		[5cuwjB /fgZt0V				po lati			ost-ted atin h		
acoust	danceat	oility \		key	loudne	ess mo	de	speed	hiness		
11645 0.0122	2011033	0.449		11	-9.2	207	0		0.0590		
18994 0.1570		0.794		1	-4.9	959	1		0.0622		
19127 0.4370		0.805		10	-4.3	337	1		0.0986		
19160 0.2100		0.746		7	-7.0	985	1		0.0504		
19168 0.0853		0.748		4	-6.2	230	0		0.0905		
		0.601		•			•		0 1400		
21468 0.0522		0.621		6	-5.6	016	0		0.1480		
20092 0.0522		0.621		6	-5.6	516	0		0.1480		
23104		0.621		6	-5.6	516	0		0.1480		
0.0522 1551		0.824		6	-6.4	100	0		0.0924		
0.6920 20091		0.824		6	-6.4	100	0		0.0924		
0.6920				-							
	instrum	nentaln	ess	livene	SS Va	alence	-	tempo	durat	ion_ms	
11645 18994		0.000		0.41 0.30		0.558 0.805		5 . 327 5 . 006		51853 245427	
19127		0.000		0.30		0.714		4.053		107572	
19160		0.000	000	0.38	30	0.542	80	0.989	2	206639	
19168		0.000	000	0.10	80	0.585	9	7.015	4	218507	
21468 20092		0.000		0.46 0.46		0.457 0.457		6.735 6.735		163636 163636	
23104		0.000		0.46		0.457		6.735		163636	
1551 20091		0.000		0.14 0.14		0.513 0.513		8.027 8.027		209438 209438	
20091		0.000	104	0.14	50	0.010	90	0.027	4	203730	

```
[32833 rows x 21 columns]
```

Для удаления указанных колонок из датасета используется метод .drop(columns=[]).

```
dataset = dataset.drop(columns=["duration_ms", "tempo"])
```

Происходит удаление повторяющихся строк из датасета с помощью метода drop_duplicates().

```
dataset = dataset.drop_duplicates()
```

Происходит замена значений в указанной колонке на новые значения с помощью метода replace()

```
dataset = dataset.replace({"track_album_id": {'track_album_id':
'track_album_id1'}})
```

Вывод информации о датасете (названия колонок, типы данных, использование памяти)Генерация описательных статистик для датасета

max - максимальное значение min - минимальное значение std - это мера разброса значений в наборе данных относительно их среднего значения. count - количество элементов в наборе данных mean - среднее значение, то есть сумма всех значений, разделенная на количество значений

```
dataset.info()
dataset.describe()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 32833 entries, 0 to 32832
Data columns (total 19 columns):
#
    Column
                               Non-Null Count Dtype
 0
    track id
                               32833 non-null
                                              object
 1
    track name
                               32828 non-null object
    track_artist
 2
                               32828 non-null object
 3
    track popularity
                              32833 non-null int64
 4
    track_album_release_date 32833 non-null object
 5
    playlist name
                               32833 non-null
                                              object
 6
    playlist id
                               32833 non-null
                                              object
 7
    playlist genre
                               32833 non-null
                                               object
 8
    playlist subgenre
                               32833 non-null
                                               object
 9
    danceability
                               32833 non-null
                                              float64
 10
    energy
                               32833 non-null
                                              float64
 11
                               32833 non-null int64
    key
    loudness
 12
                               32833 non-null float64
```

```
13
                                32833 non-null
     mode
                                                 int64
 14
     speechiness
                                32833 non-null
                                                 float64
 15
     acousticness
                                32833 non-null
                                                 float64
     instrumentalness
                                32833 non-null
                                                 float64
 16
 17
    liveness
                                32833 non-null
                                                 float64
18
    valence
                                32833 non-null
                                                 float64
dtypes: float64(8), int64(3), object(8)
memory usage: 4.8+ MB
       track popularity
                          danceability
                                               energy
                                                                 key
count
           32833.000000
                          32833.000000
                                         32833.000000
                                                        32833.000000
              42.477081
                              0.654850
                                             0.698619
                                                            5.374471
mean
              24.984074
                              0.145085
std
                                             0.180910
                                                            3.611657
min
               0.000000
                              0.000000
                                             0.000175
                                                            0.000000
              24,000000
                              0.563000
                                             0.581000
                                                            2.000000
25%
                                             0.721000
50%
              45.000000
                              0.672000
                                                            6.000000
75%
              62,000000
                              0.761000
                                             0.840000
                                                            9.000000
                              0.983000
             100.000000
                                             1.000000
                                                           11.000000
max
           loudness
                                                   acousticness
                              mode
                                      speechiness
                      32833.000000
       32833.000000
                                     32833.000000
                                                   32833.000000
count
          -6.719499
mean
                          0.565711
                                         0.107068
                                                        0.175334
std
           2.988436
                          0.495671
                                         0.101314
                                                        0.219633
         -46.448000
                          0.000000
                                         0.000000
                                                        0.000000
min
25%
          -8.171000
                          0.000000
                                         0.041000
                                                        0.015100
50%
          -6.166000
                          1.000000
                                         0.062500
                                                        0.080400
75%
          -4.645000
                          1.000000
                                         0.132000
                                                        0.255000
           1.275000
                          1.000000
                                         0.918000
                                                        0.994000
max
       instrumentalness
                              liveness
                                              valence
           32833.000000
                          32833.000000
                                         32833.000000
count
mean
               0.084747
                              0.190176
                                             0.510561
std
               0.224230
                              0.154317
                                             0.233146
               0.000000
                              0.000000
                                             0.000000
min
25%
               0.000000
                              0.092700
                                             0.331000
50%
               0.000016
                              0.127000
                                             0.512000
75%
               0.004830
                              0.248000
                                             0.693000
               0.994000
                              0.996000
                                             0.991000
max
```

Выборка определенных данных на основе индексов строк и колонок Сохранение измененного датасета в новый CSV файл

```
selected_data = dataset.loc[[1,3,6],['track_name',
   'track_album_release_date']]

dataset.to_csv("file1.csv", index=False)
```

Вывод: был реализован базовый анализ датасета.