

CPSC 304 Project Cover Page

Milestone #: 4

Date: Dec 1, 2023

Group Number: 34

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Milestone 4

1. Description

Our project aims to create a social platform for music enthusiasts, providing a space for users to share their musical tastes, rate albums and tracks, and curate personalized charts. Users can explore and engage with each other's charts, engaging a community focused on music discovery and critique. Users can also create playlists, allowing the creation of personalized collections of songs.

2. Schema Differences

We used the same schema.

3. Schema

primary key, foreign key

- User4(pid: INTEGER, birthdate: DATE, birthplace: VARCHAR, username: VARCHAR, password: VARCHAR)
 - Candidate Keys: (username)
 - NOT NULL: username, email
 - UNIQUE: username
- User3(username: VARCHAR, birthdate: DATE, age: INTEGER)
 - Candidate Keys: N/A
 - NOT NULL: N/A
 - UNIQUE: N/A
- User2(username: VARCHAR, name: VARCHAR)
 - Candidate Keys: N/A
 - NOT NULL: name
 - UNIQUE: N/A
- User1(username: VARCHAR, email: VARCHAR)
 - Candidate Keys: N/A
 - NOT NULL: email
 - UNIQUE: N/A
- Follows(followerid: INTEGER, followeeid: INTEGER, follow date: DATE)
 - NOT NULL: follow date
- Artist2(pid: INTEGER, name: VARCHAR, birthdate: DATETIME, birthplace: VARCHAR, genre: VARCHAR, description: VARCHAR, label: VARCHAR, isDead: BOOLEAN)
 - Candidate Keys: N/A
 - NOT NULL: name, genre
 - UNIQUE: (name, birthdate, isDead)
- Artist1(name: VARCHAR, birthdate: DATETIME, isDead: BOOLEAN, age: INTEGER)
 - Candidate Keys: N/A
 - NOT NULL: N/A
 - UNIQUE: N/A
- Review2(rid: INTEGER, review date: DATETIME, text: VARCHAR, likes: INTEGER, dislikes: INTEGER, pid: INTEGER)
 - Candidate Keys: N/A
 - NOT NULL: likes, dislikes
 - UNIQUE: (review date, likes, dislikes)
- Review1(review date: DATETIME, likes: INTEGER, dislikes: INTEGER, helpfulness: INTEGER)
 - Candidate Keys: N/A

- NOT NULL: N/A
- UNIQUE: N/A
- Comment2(comment date: DATETIME, text: VARCHAR, likes: INTEGER, dislikes: INTEGER, pid: INTEGER, rid: INTEGER)
 - Candidate Keys: N/A
 - NOT NULL: likes, dislikes, text
 - UNIQUE: (comment date, likes, dislikes)
- Comment1(comment date: DATETIME, likes: INTEGER, dislikes: INTEGER, position: INTEGER)
 - Candidate Keys: N/A
 - NOT NULL: N/A
 - UNIQUE: N/A
- Album(album name: VARCHAR, release date: DATE, isSingle: BOOLEAN, genre: VARCHAR, duration: INTEGER, cover: BLOB, number of songs: INTEGER)
 - Candidate Keys: (album name, duration), (album name, number of songs)
 - NOT NULL: isSingle, genre, duration, cover, number of songs
- Song(song name: VARCHAR, release date: DATE, duration: INTEGER, genre: VARCHAR)
 - Candidate Keys: (song name, duration)
 - NOT NULL: duration, genre
- AlbumSong(album name: VARCHAR, album release date: DATE, (song name: VARCHAR, song release date: DATE))
 - ArtistAlbum(pid: INTEGER, album name: VARCHAR, release date: DATE)
 - ArtistSong(pid: INTEGER, song name: VARCHAR, release date: DATE)
- AlbumReview(rid: INTEGER, album name: VARCHAR, release date: DATE, rating: INTEGER)
 - NOT NULL: rating
- SongReview(rid: INTEGER, song name: VARCHAR, release date: DATE, rating: INTEGER)
 - NOT NULL: rating
- Playlist(playlist name: VARCHAR, creation date: DATE, image: BLOB, description: VARCHAR)
 - NOT NULL: image
- PlaylistSong(playlist name: VARCHAR, creation date: DATE, song name: VARCHAR, release date: DATE)
 - UserChart(ucid: INTEGER, userchart name: VARCHAR, pid: INTEGER)
 - NOT NULL: userchart name
 - UserChartAlbum(ucid: Integer, pid: Integer, anlbum name: VARCHAR, release date: DATE, ranking: INTEGER)
 - UserChartReview(ucid: Integer, pid: Integer, rid: INTEGER)

4. ALL SQL Queries Used

all queries are found in either:

1. ratemusicbackend/src/songs/songs.service.ts
2. ratemusicbackend/src/users/users.service.ts

REQUIRED QUERIES

Rubric	Query	file_name:page_num
INSERT	createPlaylist	users.service.ts:339
DELETE	deleteReview	users.service.ts:557
UPDATE	updateUser	users.service.ts:651
SELECTION	filterSongs	songs.service.ts:70

JOIN	findAllAlbums	songs.service.ts:466
AGGREGATION WITH GROUP BY	avgRatingPerUser	users.service.ts:494
AGGREGATION WITH HAVING	advancedFilterSongs	songs.service.ts:119
NESTED AGGREGATION WITH GROUP BY	GetAvgRatingPerUserChartAlbum	users.service.ts:373
DIVISION	getAllUserChartsFiltered	users.service.ts:174

OTHER QUERIES

Query	file_name:page_num
getAlbumReviews	songs.service.ts:19
getAlbumSongs	songs.service.ts:41
getAllGenres	songs.service.ts:60
createUserChartReview	songs.service.ts:188
createSongReview	songs.service.ts:217
createAlbumReview	songs.service.ts:256
getAllAlbumReviews	songs.service.ts:307
getAllSongReviews	songs.service.ts:334
getSongReviews	songs.service.ts:364
findAllUsercharts	songs.service.ts:397
findAllSongs	songs.service.ts:429
unfollowUser	users.service.ts:18
getUserFollowers	users.service.ts:25
getUserFollowing	users.service.ts:45
getNumFollowers	users.service.ts:65
getNumFollowing	users.service.ts:77
followUser	users.service.ts:89
getAllArtists	users.service.ts:110
insertReviewComment	users.service.ts:135
getReviewComments	users.service.ts:152
getUserReview	users.service.ts:200
getPlaylistSongs	users.service.ts:281
getAllPlaylists	users.service.ts:308
getUserChartAlbums	users.service.ts:395
getAllUserCharts	users.service.ts:419
getPersonalUserCharts	users.service.ts:452
insertUserChart	users.service.ts:468
getUserById	users.service.ts:521
getUserUserchartReviews	users.service.ts:567
getUserSongReviews	users.service.ts:593

getUserAlbumReviews	users.service.ts:623
getAllUsers	users.service.ts:706
getAllUsers	users.service.ts:706
addUser	users.service.ts:730
login	users.service.ts:804

5. Required Query Screenshots

INSERT OPERATION (createPlaylist: users.service.ts:339)

We use an insert operation to allow a user to create a playlist with a custom name/description and any number of songs in them.

Before:

Playlist:

	pid : playlist_name	creation_date	image	description
1	58708 Drake and Other Cool Rappers	2023-11-28	<null>	my goats!
2	58708 gbgngbngbnbnbn	2023-11-29	<null>	hh
3	58708 hh	2023-11-29	<null>	Take a trip down memory lane with these hip hop classics.
4	58708 Hip Hop Classics	2023-09-22	300x298 JPEG image 36.28 kB	Relax with some smooth jazz tunes.
5	58708 Jazz Vibes	2023-09-20	1080x1080 JPEG image 20.61 kB	DESC
6	58708 NAME	2023-11-28	<null>	Soothing R&B for the soul.
7	58708 Nice playlist	2023-11-29	<null>	The hottest rap tracks right now.
8	58708 R&B Soul	2023-09-23	500x500 JPEG image 23.12 kB	my rap songs i like a lot.
9	58708 Rap Essentials	2023-09-21	736x736 JPEG image 75.63 kB	The chart-topping hits everyone is listening to.
10	58708 super rap playlist	2023-11-28	<null>	
11	58708 Top Hits	2023-09-24	828x828 JPEG image 73.5 kB	

PlaylistSong:

	pid : playlist_name	creation_date	song_name	release_date
1	58708 gbgngbngbnbnbn	2023-11-29	10 Bands	2015-02-13
2	58708 Nice playlist	2023-11-29	10 Bands	2015-02-13
3	58708 hh	2023-11-29	6 God	2015-02-13
4	58708 Drake and Other Cool Rappers	2023-11-28	Did You Wrong	2020-05-08
5	58708 NAME	2023-11-28	Did You Wrong	2020-05-08
6	58708 Rap Essentials	2023-09-21	Did You Wrong	2020-05-08
7	58708 super rap playlist	2023-11-28	Did You Wrong	2020-05-08
8	58708 Drake and Other Cool Rappers	2023-11-28	Energy	2015-02-13
9	58708 Nice playlist	2023-11-29	Family Business	2003-09-30
10	58708 Nice playlist	2023-11-29	Get Em High (feat. Talib Kweli & Common)	2003-09-30
11	58708 Nice playlist	2023-11-29	good Kid	2012-10-22
12	58708 Nice playlist	2023-11-29	Graduation Day	2003-09-30
13	58708 Nice playlist	2023-11-29	I'll Fly Away	2003-09-30
14	58708 Nice playlist	2023-11-29	Intro	2003-09-30
15	58708 R&B Soul	2023-09-23	Know Yourself	2015-02-13
16	58708 super rap playlist	2023-11-28	Know Yourself	2015-02-13
17	58708 Nice playlist	2023-11-29	Money Trees (ft. Jay Rock)	2012-10-22
18	58708 Drake and Other Cool Rappers	2023-11-28	Preach (ft. PARTYNEXTDOOR)	2015-02-13
19	58708 Nice playlist	2023-11-29	The Art of Peer Pressure	2012-10-22
20	58708 Drake and Other Cool Rappers	2023-11-28	Through the Wire	2003-09-30
21	58708 Hip Hop Classics	2023-09-22	Through the Wire	2003-09-30
22	58708 super rap playlist	2023-11-28	Through the Wire	2003-09-30
23	58708 Jazz Vibes	2023-09-20	Wesley's Theory	2015-03-15
24	58708 NAME	2023-11-28	Wesley's Theory	2015-03-15
25	58708 super rap playlist	2023-11-28	Wesley's Theory	2015-03-15
26	58708 Top Hits	2023-09-24	Wesley's Theory	2015-03-15
27	58708 Drake and Other Cool Rappers	2023-11-28	You & The 6	2015-02-13

During:

RateMyMusic Albums Songs UserCharts Playlists Social

Playlist created successfully

Create a Playlist

all fa

All Falls Down (ft. Syleena Johnson)
The College Dropout (2003)

My Fav Songs

Playlist Description

Total Duration: 16:04

	N95 Mr. Morale & the Big Steppers (2022)	3:52
	m.A.A.d city (ft. MC Eiht) good kid, m.A.A.d city (2012)	5:30
	Madonna If You're Reading This It's Too Late (2015)	2:58
	All Falls Down (ft. Syleena Johnson) The College Dropout (2003)	3:44

Create Playlist

After:

Playlist:

	pid : playlist_name	creation_date	image	description
1	58708 Drake and Other Cool Rappers	2023-11-28	<null>	my goats!
2	58708 gbgngbngbgnbnb	2023-11-29	<null>	
3	58708 hh	2023-11-29	<null>	hh
4	58708 Hip Hop Classics	2023-09-22	300x298 JPEG image 36.28 kB	Take a trip down memory lane with these hip hop classics.
5	58708 Jazz Vibes	2023-09-20	1080x1080 JPEG image 20.61 kB	Relax with some smooth jazz tunes.
6	58708 My Fav Songs	2023-11-30		
7	58708 NAME	2023-11-28	<null>	DESC
8	58708 Nice playlist	2023-11-29	<null>	
9	58708 R&B Soul	2023-09-23	500x500 JPEG image 23.12 kB	Soothing R&B for the soul.
10	58708 Rap Essentials	2023-09-21	736x736 JPEG image 75.63 kB	The hottest rap tracks right now.
11	58708 super rap playlist	2023-11-28	<null>	my rap songs i like a lot.
12	58708 Top Hits	2023-09-24	828x828 JPEG image 73.5 kB	The chart-topping hits everyone is listening to.

PlaylistSong:

	pid : playlist_name	creation_date	song_name	release_date
1	58708 gbgngbngbgnbnb	2023-11-29	10 Bands	2015-02-13
2	58708 Nice playlist	2023-11-29	10 Bands	2015-02-13
3	58708 hh	2023-11-29	6 God	2015-02-13
4	58708 My Fav Songs	2023-11-30	All Falls Down (ft. Syleena Johnson)	2003-09-30
5	58708 Drake and Other Cool Rappers	2023-11-28	Did You Wrong	2020-05-08
6	58708 NAME	2023-11-28	Did You Wrong	2020-05-08
7	58708 Rap Essentials	2023-09-21	Did You Wrong	2020-05-08
8	58708 super rap playlist	2023-11-28	Did You Wrong	2020-05-08
9	58708 Drake and Other Cool Rappers	2023-11-28	Energy	2015-02-13
10	58708 Nice playlist	2023-11-29	Family Business	2003-09-30
11	58708 Nice playlist	2023-11-29	Get Em High (feat. Talib Kweli & Common)	2003-09-30
12	58708 Nice playlist	2023-11-29	good kid	2012-10-22
13	58708 Nice playlist	2023-11-29	Graduation Day	2003-09-30
14	58708 Nice playlist	2023-11-29	I'll Fly Away	2003-09-30
15	58708 Nice playlist	2023-11-29	Intro	2003-09-30
16	58708 R&B Soul	2023-09-23	Know Yourself	2015-02-13
17	58708 super rap playlist	2023-11-28	Know Yourself	2015-02-13
18	58708 My Fav Songs	2023-11-30	m.A.A.d city (ft. MC Eiht)	2012-10-22
19	58708 My Fav Songs	2023-11-30	Madonna	2015-02-13
20	58708 Nice playlist	2023-11-29	Money Trees (ft. Jay Rock)	2012-10-22
21	58708 My Fav Songs	2023-11-30	N95	2022-05-13
22	58708 Drake and Other Cool Rappers	2023-11-28	Preach (ft. PARTYNEXTDOOR)	2015-02-13
23	58708 Nice playlist	2023-11-29	The Art of Peer Pressure	2012-10-22
24	58708 Drake and Other Cool Rappers	2023-11-28	Through the Wire	2003-09-30
25	58708 Hip Hop Classics	2023-09-22	Through the Wire	2003-09-30
26	58708 super rap playlist	2023-11-28	Through the Wire	2003-09-30
27	58708 Jazz Vibes	2023-09-20	Wesley's Theory	2015-03-15
28	58708 NAME	2023-11-28	Wesley's Theory	2015-03-15
29	58708 super rap playlist	2023-11-28	Wesley's Theory	2015-03-15
30	58708 Top Hits	2023-09-24	Wesley's Theory	2015-03-15
31	58708 Drake and Other Cool Rappers	2023-11-28	You & The 6	2015-02-13

DELETE OPERATION (deleteReview: users.service.ts:557)

We allow a user to delete any review that they have created.

Before:

Review2:

	rid	pid	review_date	review_text	likes	dislikes
1	10031	58708	2023-11-29 15:23:13	Nice song wow	0	0
2	10153	58708	2023-11-29 15:48:16	meh	0	0
3	10164	44550	2023-11-29 19:57:10	mid	0	0
4	10471	58708	2023-11-30 00:51:07	great chart howard!!!	0	0
5	10484	58708	2023-11-30 01:14:04	tttt	0	0
6	10502	41902873	2023-11-25 00:00:00	THIS IS GREAT	0	0
7	10555	83726415	2023-11-28 18:21:08	10 bands heck yeah	0	0
8	10604	83726415	2023-11-29 15:37:44	drake yip yip	0	0
9	12345	62519038	2023-11-24 12:00:00	Testing division!	0	0
10	44873	58708	2023-11-29 15:23:38	i hate shrey	0	0
11	12312312	83726415	2023-09-11 00:00:00	This is an amazing!	20	345
12	23423423	41902873	2023-09-12 00:00:00	I really enjoyed.	30	0
13	34534534	62519038	2023-09-13 00:00:00	Not my cup of tea.	5	3
14	45645645	29384756	2023-09-14 00:00:00	Decent effort.	19	5
15	56756756	80172634	2023-09-15 00:00:00	Could have been better.	27	18
16	67867867	83726415	2023-09-16 00:00:00	Absolutely breathtaking!	25	10
17	67867868	41902873	2023-09-17 00:00:00	This track is fire.	35	0
18	67867869	62519038	2023-09-18 00:00:00	A decent song but not my taste.	15	7
19	67867870	29384756	2023-09-19 00:00:00	A classic, never gets old.	29	6
20	67867871	80172634	2023-09-20 00:00:00	This song speaks volumes.	37	9
21	67867872	41902873	2023-09-21 00:00:00	This user chart has a great selection of albums!	40	4
22	67867873	83726415	2023-09-21 00:00:00	WOW!	40	7
23	67867874	83726415	2023-09-22 00:00:00	This kind of sucks ngl	20	400
24	67867875	83726415	2023-09-24 00:00:00	Great!	47	1
25	67867876	83726415	2023-09-26 00:00:00	Sucks!	15	45

Review1:

	review_date	likes	dislikes	helpfulness
1	2023-09-11 00:00:00	20	345	0
2	2023-09-12 00:00:00	30	0	5
3	2023-09-13 00:00:00	5	3	3
4	2023-09-14 00:00:00	19	5	4
5	2023-09-15 00:00:00	27	18	2
6	2023-09-16 00:00:00	25	10	5
7	2023-09-17 00:00:00	35	0	10
8	2023-09-18 00:00:00	15	7	7
9	2023-09-19 00:00:00	29	6	9
10	2023-09-20 00:00:00	37	9	8
11	2023-09-21 00:00:00	40	4	10
12	2023-11-24 12:00:00	0	0	0
13	2023-11-28 18:21:08	0	0	0
14	2023-11-29 15:23:13	0	0	0
15	2023-11-29 15:23:38	0	0	0
16	2023-11-29 15:37:44	0	0	0
17	2023-11-29 15:48:16	0	0	0
18	2023-11-29 19:57:10	0	0	0
19	2023-11-30 00:51:07	0	0	0
20	2023-11-30 01:14:04	0	0	0

SongReview:

	pid	rid	song_name	release_date	rating
1	44550	10164	10 Bands	2015-02-13	1
2	58708	10031	good kid	2012-10-22	5
3	58708	10153	10 Bands	2015-02-13	1
4	29384756	67867870	Through the Wire	2003-09-30	5
5	41902873	10502	Did You Wrong	2020-05-08	0
6	41902873	67867868	Did You Wrong	2020-05-08	4
7	62519038	67867869	Know Yourself	2015-02-13	5
8	80172634	67867871	Wesley's Theory	2015-03-15	5
9	83726415	10555	10 Bands	2015-02-13	5
10	83726415	10604	6 God	2015-02-13	4

During:

The screenshot shows the RateMyMusic website interface. At the top, there is a navigation bar with links for RateMyMusic, Albums, Songs, UserCharts, Playlists, and Social. On the right side of the header, there is a user profile icon and a dropdown menu. Below the header, there is a button labeled "View User Charts". The main content area features a search bar with the placeholder "Song Reviews" and a dropdown arrow. A large rectangular box displays a song review for "good kid" by Kendrick Lamar (@n). The review includes a photo of a black van parked on a street, a short caption "Nice song wow", a rating of "Rating: 5", and a red "Delete Review" button. Below this box, another box is partially visible with the title "10 Bands".

After:

Review2:

	rid	pid	review_date	review_text	likes	dislikes
1	10153	58708	2023-11-29 15:48:16	meh	0	0
2	10164	44550	2023-11-29 19:57:10	mid	0	0
3	10471	58708	2023-11-30 00:51:07	great chart howard!!!	0	0
4	10484	58708	2023-11-30 01:14:04	tttt	0	0
5	10502	41902873	2023-11-25 00:00:00	THIS IS GREAT	0	0
6	10555	83726415	2023-11-28 18:21:08	10 bands heck yeah	0	0
7	10604	83726415	2023-11-29 15:37:44	drake yip yip	0	0
8	12345	62519038	2023-11-24 12:00:00	Testing division!	0	0
9	44873	58708	2023-11-29 15:23:38	i hate shrey	0	0
10	12312312	83726415	2023-09-11 00:00:00	This is an amazing!	20	345
11	23423423	41902873	2023-09-12 00:00:00	I really enjoyed.	30	0
12	34534534	62519038	2023-09-13 00:00:00	Not my cup of tea.	5	3
13	45645645	29384756	2023-09-14 00:00:00	Decent effort.	19	5
14	56756756	80172634	2023-09-15 00:00:00	Could have been better.	27	18
15	67867867	83726415	2023-09-16 00:00:00	Absolutely breathtaking!	25	10
16	67867868	41902873	2023-09-17 00:00:00	This track is fire.	35	0
17	67867869	62519038	2023-09-18 00:00:00	A decent song but not my taste.	15	7
18	67867870	29384756	2023-09-19 00:00:00	A classic, never gets old.	29	6
19	67867871	80172634	2023-09-20 00:00:00	This song speaks volumes.	37	9
20	67867872	41902873	2023-09-21 00:00:00	This user chart has a great selection of albums!	40	4
21	67867873	83726415	2023-09-21 00:00:00	WOW!	40	7
22	67867874	83726415	2023-09-22 00:00:00	This kind of sucks ngl	20	400
23	67867875	83726415	2023-09-24 00:00:00	Great!	47	1
24	67867876	83726415	2023-09-26 00:00:00	Sucks!	15	45

Review1:

	review_date	likes	dislikes	helpfulness
1	2023-09-11 00:00:00	20	345	0
2	2023-09-12 00:00:00	30	0	5
3	2023-09-13 00:00:00	5	3	3
4	2023-09-14 00:00:00	19	5	4
5	2023-09-15 00:00:00	27	18	2
6	2023-09-16 00:00:00	25	10	5
7	2023-09-17 00:00:00	35	0	10
8	2023-09-18 00:00:00	15	7	7
9	2023-09-19 00:00:00	29	6	9
10	2023-09-20 00:00:00	37	9	8
11	2023-09-21 00:00:00	40	4	10
12	2023-11-24 12:00:00	0	0	0
13	2023-11-28 18:21:08	0	0	0
14	2023-11-29 15:23:38	0	0	0
15	2023-11-29 15:37:44	0	0	0
16	2023-11-29 15:48:16	0	0	0
17	2023-11-29 19:57:10	0	0	0
18	2023-11-30 00:51:07	0	0	0
19	2023-11-30 01:14:04	0	0	0

SongReview:

	pid	rid	song_name	release_date	rating
1	44550	10164	10 Bands	2015-02-13	1
2	58708	10153	10 Bands	2015-02-13	1
3	29384756	67867870	Through the Wire	2003-09-30	5
4	41902873	10502	Did You Wrong	2020-05-08	0
5	41902873	67867868	Did You Wrong	2020-05-08	4
6	62519038	67867869	Know Yourself	2015-02-13	5
7	80172634	67867871	Wesley's Theory	2015-03-15	5
8	83726415	10555	10 Bands	2015-02-13	5
9	83726415	10604	6 God	2015-02-13	4

UPDATE OPERATION (updateUser: users.service.ts:651)

We allow a user to update all of the information they submitted when creating a new account.

Before

User4:

	pid	birthdate	birthplace	username	password	profile_pic
1	10727	2013-11-11	Iran	mercurylover	x	735x724 JPEG image 31.61 kB
2	34049	2003-05-05	Sydney, Australia	ardster	a	<null>
3	44550	1110-12-31	yash	yash	yash	<null>
4	58708	2023-11-10	n	n	n	600x600 JPEG image 90.01 kB
5	70527	2003-05-05	9	9	7	<null>
6	76138	2023-11-07	russia	Gangwar	greg	<null>
7	76981	1110-12-31	a	a	a	600x600 JPEG image 99.74 kB
8	29384756	2000-06-27	Texas, USA	squaresalad	Egalitarianism	385x357 JPEG image 20.52 kB
9	41902873	1968-11-02	Indiana, USA	twocoffeeonemommy	ilovemygrandkids123	630x619 JPEG image 146.4 kB
10	62519038	2014-09-19	Ontario, Canada	PORK_MAN	Fortnite@123	593x655 JPEG image 67.47 kB
11	80172634	1945-12-12	New Jersey, USA	tillyfumpy	ChickenButt	532x412 JPEG image 48.68 kB
12	83726415	2003-05-28	Manitoba, Canada	AngelPretty	makeup1	438x438 JPEG image 77.04 kB

User3:

1	9	2003-05-05	20
2	a	1110-12-31	10
3	AngelPretty	2003-05-28	20
4	ardster	2003-05-05	10
5	Gangwar	2023-11-07	10
6	mercurylover	2013-11-11	10
7	n	2023-11-10	10
8	PORK_MAN	2014-09-19	9
9	squaresalad	2000-06-27	23
10	tillyfumpy	1945-12-12	77
11	twocoffeeonemommy	1968-11-02	55
12	yash	1110-12-31	912

User2:

	username	name
1	9	7
2	a	a
3	AngelPretty	Sofia Cavalry
4	ardster	Ardi
5	Gangwar	Gregory
6	mercurylover	Amin
7	n	n
8	PORK_MAN	Hunter McKinnon
9	squaresalad	James Diaz
10	tillyfumpy	Howard Bugs
11	twocoffeeonemommy	Brenda Hepburn
12	yash	yash

User1:

	username	email
1	9	7
2	a	a
3	AngelPretty	pretty_angel458@hotmail.com
4	ardster	ardi@ardi.com
5	Gangwar	greg@gmal.com
6	mercurylover	ramlover@aol.com
7	n	n
8	PORK_MAN	zapbran7777@gmail.com
9	squaresalad	diaz.minecraft@gmail.com
10	tillyfumpy	Howard.S.Buggs1945@gmail.com
11	twocoffeeonemommy	brenda.hepburn1968@gmail.com
12	yash	yash@yash.yash

During

The screenshot shows the RateMyMusic website's user profile update page. At the top, there is a navigation bar with links for 'RateMyMusic', 'Albums', 'Songs', 'UserCharts', 'Playlists', and 'Social'. On the right side of the header, there is a user icon and the name 'n -'. Below the header, the main content area has a title 'Update a New User Profile'. The form contains several input fields for updating user information. Each field has an 'Old' label followed by the current value and a new field labeled 'NEW_'. The fields are: Old name: n (NEW_NAME), Old username: n (NEW_USERNAME), Old password: n (NEW_PASSWORD), Old email: n (NEW_EMAIL), Old birthdate: 2023-11-10T08:00:00.000Z (10/10/1010), and Old birthplace: n (NEW_BIRTHPLACE). There is also a blue 'Update User' button at the bottom of the form.

Update a New User Profile

Old name: n	NEW_NAME
Old username: n	NEW_USERNAME
Old password: n	NEW_PASSWORD
Old email: n	NEW_EMAIL
Old birthdate: 2023-11-10T08:00:00.000Z	10/10/1010
Old birthplace: n	NEW_BIRTHPLACE

[Update User](#)

After

User4:

	pid	birthdate	birthplace	username	password	profile_pic
1	10727	2013-11-11	Iran	mercurylover	x	735x724 JPEG image 31.61 kB
2	34049	2003-05-05	Sydney, Australia	ardster	a	<null>
3	44550	1110-12-31	yash	yash	yash	<null>
4	58708	1010-10-10	NEW_BIRTHPLACE	NEW_USERNAME	NEW_PASSWORD	<null>
5	70527	2003-05-05	9	9	7	<null>
6	76138	2023-11-07	russia	Gangwar	greg	<null>
7	76981	1110-12-31	a	a	a	600x600 JPEG image 99.74 kB
8	29384756	2000-06-27	Texas, USA	squaresalad	Egalitarianism	385x357 JPEG image 20.52 kB
9	41902873	1968-11-02	Indiana, USA	twocoffeeonemommy	ilovemygrandkids123	630x619 JPEG image 146.4 kB
10	62519938	2014-09-19	Ontario, Canada	PORK_MAN	Fortnite@123	593x655 JPEG image 67.47 kB
11	80172634	1945-12-12	New Jersey, USA	tillyfumpy	ChickenButt	532x412 JPEG image 48.68 kB
12	83726415	2003-05-28	Manitoba, Canada	AngelPretty	makeup1	438x438 JPEG image 77.04 kB

User3:

	username	birthdate	age
1	9	2003-05-05	20
2	a	1110-12-31	10
3	AngelPretty	2003-05-28	20
4	ardster	2003-05-05	10
5	Gangwar	2023-11-07	10
6	mercurylover	2013-11-11	10
7	NEW_USERNAME	1010-10-10	10
8	PORK_MAN	2014-09-19	9
9	squaresalad	2000-06-27	23
10	tillyfumpy	1945-12-12	77
11	twocoffeeonemommy	1968-11-02	55
12	yash	1110-12-31	912

User2:

	username	name
1	9	7
2	a	a
3	AngelPretty	Sofia Cavalry
4	ardster	Ardi
5	Gangwar	Gregory
6	mercurylover	Amin
7	NEW_USERNAME	NEW_NAME
8	PORK_MAN	Hunter McKinnon
9	squaresalad	James Diaz
10	tillyfumpy	Howard Bugs
11	twocoffeeonemommy	Brenda Hepburn
12	yash	yash

User1:

	username	email
1	9	7
2	a	a
3	AngelPretty	pretty_angel458@hotmail.com
4	ardster	ardi@ardi.com
5	Gangwar	greg@gmail.com
6	mercurylover	ramlover@aol.com
7	NEW_USERNAME	NEW_EMAIL
8	PORK_MAN	zapbran7777@gmail.com
9	squaresalad	diaz.minecraft@gmail.com
10	tillyfumpy	Howard.S.Buggs1945@gmail.com
11	twocooffeeonemommy	brenda.hepburn1968@gmail.com
12	yash	yash@yash.yash

SELECTION OPERATION (filterSongs: song.service.ts:70)

We allow users to filter songs on any number of conditions, as shown in the UI.

Before (All data in tables)

Join on Song, AlbumSong, Album, ArtistAlbum, Artist2:

song_name	song_release_date	duration	genre	album_name	cover	name
DICKWORTH	2018-06-29	232	Rap	DAMN	600x600 JPEG image 93.97 kB	Kendrick Lamar
Did You Wrong	2020-05-08	179	Rap	Good Intentions	500x500 JPEG image 25.35 kB	MV
Backseat Freestyle	2012-10-22	210	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
Bitch, Don't Kill My Vibe	2012-10-22	314	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
Black Boy Fly	2012-10-22	295	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
Coolton (ft. Dr. Dre)	2012-10-22	284	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
good kid	2012-10-22	228	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
n.A.A.d city (ft. MC Eiht)	2012-10-22	330	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
Honey Trees (ft. Jay Rock)	2012-10-22	397	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
Now or Never (ft. Mary J. Blige)	2012-10-22	353	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
Portice Justice (ft. Drake)	2012-10-22	311	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
Reck (ft. Anna Wise)	2012-10-22	333	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
Sherene A.K.a Master Splinter's Daughter	2012-10-22	342	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
Sing About Me, I'm Dying of Thirst	2012-10-22	808	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
Swimming Pools (Drank)	2012-10-22	319	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
The Art of Peer Pressure	2012-10-22	351	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
The Recipe (ft. Dr. Dre)	2012-10-22	320	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
10 Bands	2015-02-13	178	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
6 God	2015-02-13	181	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
6 Man	2015-02-13	168	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
6PM In New York	2015-02-13	283	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
Company (ft. Travis Scott)	2015-02-13	253	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
Energy	2015-02-13	182	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
Jungle	2015-02-13	320	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
Know Yourself	2015-02-13	100	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
Legend	2015-02-13	242	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
Madonna	2015-02-13	178	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
No Tellin'	2015-02-13	311	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
Now & Forever	2015-02-13	281	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
Preach (ft. PARTYNEXTDOOR)	2015-02-13	237	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake

Star67	2015-02-13	295	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.63 kB	Drake
Used To (ft. Lil Wayne)	2015-02-13	268	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.63 kB	Drake
Wednesday Night Interlude (ft. PARTYNEXTDOOR)	2015-02-13	212	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.63 kB	Drake
You & The 6	2015-02-13	265	Rap	If You're Reading This It's Too Late	1000x1000 JPEG image 55.63 kB	Drake
Roses	2005-08-30	244	Rap	Late Registration	600x675 JPEG image 95.6 kB	Kanye West
N95	2022-05-13	232	Rap	Mr. Morale & the Big Steppers	600x600 JPEG image 80.69 kB	Kendrick Lamar
Survival	2018-06-29	232	Rap	Scorpion	600x600 JPEG image 85.85 kB	Drake
A.D.H.T.	2011-07-02	215	Rap	Section 80	600x600 JPEG image 78.15 kB	Kendrick Lamar
All Falls Down (ft. Syleena Johnson)	2003-09-30	224	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Breathe In Breathe Out (ft. Ludacris)	2003-09-30	246	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Family Business	2003-09-30	278	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Get Em High (feat. Talib Kweli & Common)	2003-09-30	289	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Graduation Day	2003-09-30	82	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
I'll Fly Away	2003-09-30	70	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Intro	2003-09-30	19	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Jesus Walks	2003-09-30	193	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Last Call	2003-09-30	760	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Lil Jimmy Skit	2003-09-30	53	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Never Let Me Down (ft. JAY-Z & J. Ivy)	2003-09-30	324	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
School Spirit	2003-09-30	182	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
School Spirit Skit 1	2003-09-30	43	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
School Spirit Skit 2	2003-09-30	26	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Slow Jamz	2003-09-30	31	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Spaceship (ft. GLC & Consequence)	2003-09-30	324	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
The New Workout Plan	2003-09-30	322	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Through the Wire	2003-09-30	102	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Two Words (ft. Mos Def, Freeway & The Boys Choir of Harlem)	2003-09-30	265	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
We Don't Care	2003-09-30	240	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Workout Plan	2003-09-30	46	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.88 kB	Kanye West
Wesley's Theory	2015-03-15	100	Hip hop/R&B	To Pimp a Butterfly	236x241 JPEG image 15.71 kB	Kendrick Lamar

During (User UI)

RateMyMusic Albums Songs UserCharts Playlists Social User

Filters

Use Filters

Release Date Range
01/01/2000
01/01/2005

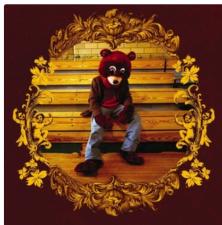
Genre
All

Type
Singles Only

Duration Range
Min Duration: 4:25 minutes
Max Duration: 9 minutes

Advanced Filters
 Use Advanced Filters

Search for a song



[Family Business \(2003\)](#)
The College Dropout

After (What is returned by query)

<input type="checkbox"/> song_name	<input type="checkbox"/> song_release_date	<input type="checkbox"/> duration	<input type="checkbox"/> genre	<input type="checkbox"/> album_name	<input type="checkbox"/> cover	<input type="checkbox"/> name
1 Bitch, Don't Kill My Vibe	2012-10-22	314	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
2 Black Boy Fly	2012-10-22	295	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
3 Compton (ft. Dr. Dre)	2012-10-22	284	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
4 Family Business	2003-09-30	278	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.08 kB	Kanye West
5 Get Em High (feat. Talib Kweli & Common)	2003-09-30	289	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.08 kB	Kanye West
6 m.A.A.d city (ft. MC Eiht)	2012-10-22	330	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
7 Money Trees (ft. Jay Rock)	2012-10-22	397	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
8 Never Let Me Down (ft. JAY-Z & J. Ivy)	2003-09-30	324	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.08 kB	Kanye West
9 Now or Never (ft. Mary J. Blige)	2012-10-22	353	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
10 Poetic Justice (ft. Drake)	2012-10-22	311	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
11 Real (ft. Anna Wise)	2012-10-22	335	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
12 Sherane a.k.a Master Splinter's Daughter	2012-10-22	342	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
13 Slow Jamz	2003-09-30	316	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.08 kB	Kanye West
14 Spaceship (ft. GLC & Consequence)	2003-09-30	324	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.08 kB	Kanye West
15 Swimming Pools (Drank)	2012-10-22	319	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
16 The Art of Peer Pressure	2012-10-22	351	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
17 The New Work Plan	2003-09-30	322	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.08 kB	Kanye West
18 The Recipe (ft. Dr. Dre)	2012-10-22	320	Hip-Hop	good kid, m.A.A.d city	600x600 JPEG image 129.09 kB	Kendrick Lamar
19 Two Words (ft. Mos Def, Freeway & The Boys Choir of Harlem)	2003-09-30	265	Hip hop/UK R&B	The College Dropout	316x316 JPEG image 113.08 kB	Kanye West

JOIN OPERATION (findAllAlbums: song.service.ts:464)

We use a join operation to be able to show the album's artist when showing the album, with the user being able to search for albums.

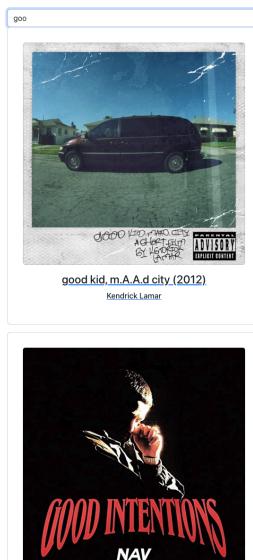
Before: (What is returned from join)

Join on Album, Artist1, Artist2, ArtistAlbum:

<input type="checkbox"/> album_name	<input type="checkbox"/> release_date	<input type="checkbox"/> isSingle	<input type="checkbox"/> genre	<input type="checkbox"/> duration	<input type="checkbox"/> cover	<input type="checkbox"/> number_of_songs	<input type="checkbox"/> pid	<input type="checkbox"/> name	<input type="checkbox"/> birthdate	<input type="checkbox"/> birthplace
1 If You're Reading This It's Too Late	2018-02-13	0	Rap	299	1600x1000 JPEG image 55.83 kB	17	32512674	Drake	1986-10-24	Toronto, Canada
2 Scorpion	2018-06-29	0	Rap	2344	600x600 JPEG image 85.83 kB	25	32512674	Drake	1986-10-24	Toronto, Canada
3 Life Registration	2003-09-30	0	Rap	2543	600x3495 JPEG image 91.00 kB	21	89320688	Kanye West	1977-08-08	Atlanta, Georgia, USA
4 The College Dropout	2003-09-30	0	Hip hop/UK R&B	236	600x600 JPEG image 80.00 kB	15	89320688	Kanye West	1977-08-08	Atlanta, Georgia, USA
5 DAWN	2017-04-17	0	Rap	4355	600x600 JPEG image 93.97 kB	34	48297392	Kendrick Lamar	1987-06-17	Compton, California, USA
6 good kid, m.A.A.d city	2012-10-22	0	Hip-Hop	5745	600x600 JPEG image 129.09 kB	17	48297392	Kendrick Lamar	1987-06-17	Compton, California, USA
7 Mr. Morale & The Big Steppers	2022-05-13	0	Rap	25424	600x600 JPEG image 80.69 kB	18	48297392	Kendrick Lamar	1987-06-17	Compton, California, USA
8 Section 80	2011-07-02	0	Rap	2353	600x600 JPEG image 78.13 kB	15	48297392	Kendrick Lamar	1987-06-17	Compton, California, USA
9 To Pimp a Butterfly	2015-03-15	0	Hip hop/Rap	275	256x2561 JPEG image 15.71 kB	16	48297392	Kendrick Lamar	1987-06-17	Compton, California, USA
10 Good Intentions	2020-05-08	0	Rap	179	500x500 JPEG image 25.35 kB	12	62043498	NAV	1989-11-03	Toronto, Canada
11 Scenery	1976-02-01	0	Jazz	644	600x600 JPEG image 90.01 kB	6	52033688	Ryo Fukui	1948-06-01	Biratori, Hokkaido, Japan

During:

All Albums



We use join here to be able to display the artist name with the album. The user chooses the album name to search for.

After: (what is returned from join with user searching “goo”)

□ album_name	: □ release_date	: □ isSingle	: □ genre	: □ duration	: □ cover	: □ number_of_songs	: □ pid	: □ name	: □ birthdate	: □ birthplace
good kid, m.A.A.d city	2012-10-22	0	Hip-Hop	5745	600x600 JPEG image 129.09 kB	17	48297392	Kendrick Lamar	1987-06-17	Compton, California, USA
Good Intentions	2020-05-08	0	Rap	179	500x500 JPEG image 25.35 kB	12	62043498	NAV	1989-11-03	Toronto, Canada

AGGREGATION WITH GROUP BY OPERATION (users.service.ts:494)

For this query, we display any user’s stats, by aggregating all the reviews they’ve done for all of an artist’s albums.

Before: (all of a user’s reviews)

	□ pid	□ name	□ artist_pic	□ description	□ rating
1	58708	Kanye West	1012x1349 JPEG image 155.76 kB	Kanye Omari West is...	4
2	58708	Kendrick Lamar	900x900 JPEG image 103.1 kB	Kendrick Lamar Duck...	0
3	58708	Kendrick Lamar	900x900 JPEG image 103.1 kB	Kendrick Lamar Duck...	1
4	58708	Kanye West	1012x1349 JPEG image 155.76 kB	Kanye Omari West is...	5
5	58708	Kendrick Lamar	900x900 JPEG image 103.1 kB	Kendrick Lamar Duck...	5
6	58708	Kendrick Lamar	900x900 JPEG image 103.1 kB	Kendrick Lamar Duck...	3
7	58708	Kendrick Lamar	900x900 JPEG image 103.1 kB	Kendrick Lamar Duck...	5
8	58708	Drake	1440x1440 JPEG image 189.48 kB	Aubrey Drake Graham...	0

During: (User UI)

View Stats by Artist for @n

SUM
MAX
MIN
Avg
COUNT

Kanye West
Number of reviews : 2

Kendrick Lamar
Number of reviews : 5

Drake
Number of reviews : 1

After: (result with user's chosen aggregation function)

	<input type="checkbox"/> pid	<input type="checkbox"/> name	<input type="checkbox"/> artist_pic	<input type="checkbox"/> description	<input type="checkbox"/> agg_value
1	58708	Kanye West	1012x1349 JPEG image 155.76 kB	Kanye Omari West i...	2
2	58708	Kendrick Lamar	900x900 JPEG image 103.1 kB	Kendrick Lamar Duc...	5
3	58708	Drake	1440x1440 JPEG image 189.48 kB	Aubrey Drake Graha...	1

AGGREGATION WITH HAVING OPERATION (songs.service.ts:117)

For this query, we allow a user to search for the top {blank} songs by genre, where the user chooses the condition for the average rating.

Before: (all songs that have reviews and their genre / average ratings)

1 Wesley's Theory	2015-03-15	Hip hop/Rap	5.0000	100 To Pimp a Butterfly	236x241 JPEG image 15.71 kB	Kendrick Lamar
2 Through the Wire	2003-09-30	Hip hop/UK R&B	5.0000	100 The College Dropout	316x316 JPEG image 113.08 kB	Kanye West
3 good kid	2012-10-22	Hip-Hop	3.0000	228 good kid, m.A.A.d city	609x600 JPEG image 129.09 kB	Kendrick Lamar
4 Know Yourself	2015-02-13	Rap	5.0000	100 If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
5 6 God	2015-02-13	Rap	4.0000	181 If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake
6 10 Bands	2015-02-13	Rap	2.3333	178 If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake

During: (UI for user to choose having condition)

RateMyMusic Albums Songs UserCharts Playlists Social

Filters

Use Filters
 Use Advanced Filters
 Get top

1 songs by genre, with average song rating
 >= 2

Search for a song

[Wesley's Theory \(2015\)](#)
To Pimp a Butterfly
 Hip hop/Rap

After: (query results with user having choice for rank per genre and having condition)

song_name	song_release_date	genre	average_rating	duration	album_name	cover	name
1 Wesley's Theory	2015-03-15	Hip hop/Rap	5.0000	100	To Pimp a Butterfly	236x241 JPEG image 15.71 kB	Kendrick Lamar
2 Through the Wire	2003-09-30	Hip hop/UK R&B	5.0000	100	The College Dropout	316x316 JPEG image 113.08 kB	Kanye West
3 good kid	2012-10-22	Hip-Hop	3.0000	228	good kid, m.A.A.d city	650x600 JPEG image 129.09 kB	Kendrick Lamar
4 Know Yourself	2015-02-13	Rap	5.0000	100	If You're Reading This It's Too Late	1000x1000 JPEG image 55.03 kB	Drake

NESTED AGGREGATION WITH GROUP BY OPERATION (users.service.ts: 373)

This query is always computed when a user visits the UserChart page. This query computes the average rating for every album in a UserChart.

During: (UI)

RateMyMusic Albums Songs UserCharts Playlists Social

User

@n's UserChart: BFRH

1		Good Intentions NAV (2020) AVG: 2.5000/5
2		good kid, m.A.A.d city Kendrick Lamar (2012) AVG: /5
3		To Pimp a Butterfly Kendrick Lamar (2015) AVG: 5.0000/5
4		If You're Reading This It's Too Late Drake (2015) AVG: 5.0000/5
5		The College Dropout Kanye West (2003) AVG: 5.0000/5

After: (Query result)

	□ album_name	□ release_date	□ `AVG(ar.rating)`
1	The College Dropout	2003-09-30	5.0000
2	Good Intentions	2020-05-08	2.5000
3	If You're Reading This It's Too Late	2015-02-13	5.0000
4	To Pimp a Butterfly	2015-03-15	5.0000

DIVISION OPERATION (users.service.ts:174)

This query is used when a user tries to find all UserCharts that contain all albums by a specific artist.

Before: (all usercharts and their albums)

	□ ucid : □ userchart_name	□ pid : □ album_name	□ release_date	□ ranking
1	11680 AllKendrick	58708 DAMN	2017-04-17	1
2	11680 AllKendrick	58708 good kid, m.A.A.d city	2012-10-22	2
3	11680 AllKendrick	58708 Mr. Morale & the Big Steppers	2022-05-13	3
4	11680 AllKendrick	58708 Section 80	2011-07-02	4
5	11680 AllKendrick	58708 To Pimp a Butterfly	2015-03-15	5
6	42359 AllDrakeAllKanye	58708 If You're Reading This It's Too Late	2015-02-13	1
7	42359 AllDrakeAllKanye	58708 Scorpion	2018-06-29	2
8	42359 AllDrakeAllKanye	58708 Late Registration	2005-08-30	3
9	42359 AllDrakeAllKanye	58708 The College Dropout	2003-09-30	4
10	45211 4Kendrick	58708 DAMN	2017-04-17	1
11	45211 4Kendrick	58708 good kid, m.A.A.d city	2012-10-22	2
12	45211 4Kendrick	58708 Mr. Morale & the Big Steppers	2022-05-13	3
13	45211 4Kendrick	58708 Section 80	2011-07-02	4
14	55223 BFRH	58708 Good Intentions	2020-05-08	1
15	55223 BFRH	58708 good kid, m.A.A.d city	2012-10-22	2
16	55223 BFRH	58708 To Pimp a Butterfly	2015-03-15	3
17	55223 BFRH	58708 If You're Reading This It's Too Late	2015-02-13	4
18	55223 BFRH	58708 The College Dropout	2003-09-30	5
19	73355 AllKendrickAllDrake1Kanye	58708 If You're Reading This It's Too Late	2015-02-13	1
20	73355 AllKendrickAllDrake1Kanye	58708 Scorpion	2018-06-29	2
21	73355 AllKendrickAllDrake1Kanye	58708 DAMN	2017-04-17	3
22	73355 AllKendrickAllDrake1Kanye	58708 The College Dropout	2003-09-30	4
23	73355 AllKendrickAllDrake1Kanye	58708 good kid, m.A.A.d city	2012-10-22	5
24	73355 AllKendrickAllDrake1Kanye	58708 Mr. Morale & the Big Steppers	2022-05-13	6
25	73355 AllKendrickAllDrake1Kanye	58708 Section 80	2011-07-02	7
26	73355 AllKendrickAllDrake1Kanye	58708 To Pimp a Butterfly	2015-03-15	8
27	666666 N's TOP 5 ALBUMS OAT	58708 good kid, m.A.A.d city	2012-10-22	1
28	666666 N's TOP 5 ALBUMS OAT	58708 If You're Reading This It's Too Late	2015-02-13	2
29	666666 N's TOP 5 ALBUMS OAT	58708 To Pimp a Butterfly	2015-03-15	3
30	666666 N's TOP 5 ALBUMS OAT	58708 The College Dropout	2003-09-30	4
31	666666 N's TOP 5 ALBUMS OAT	58708 Good Intentions	2020-05-08	5
32	10626411 Howard's Top 5 Albums	80172634 To Pimp a Butterfly	2015-03-15	1
33	10626411 Howard's Top 5 Albums	80172634 The College Dropout	2003-09-30	2
34	10626411 Howard's Top 5 Albums	80172634 If You're Reading This It's Too Late	2015-02-13	4
35	10626411 Howard's Top 5 Albums	80172634 Good Intentions	2020-05-08	5
36	10626412 James's Top 5 Albums	29384756 If You're Reading This It's Too Late	2015-02-13	1
37	10626412 James's Top 5 Albums	29384756 The College Dropout	2003-09-30	2
38	10626412 James's Top 5 Albums	29384756 To Pimp a Butterfly	2015-03-15	3
39	10626412 James's Top 5 Albums	29384756 Good Intentions	2020-05-08	4
40	10626413 Hunter's Top 5 Albums	62519038 The College Dropout	2003-09-30	1
41	10626413 Hunter's Top 5 Albums	62519038 To Pimp a Butterfly	2015-03-15	2
42	10626413 Hunter's Top 5 Albums	62519038 Good Intentions	2020-05-08	4
43	10626413 Hunter's Top 5 Albums	62519038 If You're Reading This It's Too Late	2015-02-13	5
44	10626414 Brenda's Top 5 Albums	41902873 Good Intentions	2020-05-08	2
45	10626414 Brenda's Top 5 Albums	41902873 If You're Reading This It's Too Late	2015-02-13	3
46	10626414 Brenda's Top 5 Albums	41902873 The College Dropout	2003-09-30	4
47	10626414 Brenda's Top 5 Albums	41902873 To Pimp a Butterfly	2015-03-15	5
48	10626415 My Favorite Albums	83726415 Good Intentions	2020-05-08	2
49	10626415 My Favorite Albums	83726415 If You're Reading This It's Too Late	2015-02-13	3
50	10626415 My Favorite Albums	83726415 The College Dropout	2003-09-30	4
51	10626415 My Favorite Albums	83726415 To Pimp a Butterfly	2015-03-15	5

During: (UI to select artist)

All UserCharts

After: (query result for selected artist)

1	58708	11680 AllKendrick	<null>	n	600x600 JPEG image 90.01 kB
2	58708	73355 AllKendrickAllDrake1Kanye	<null>	n	600x600 JPEG image 90.01 kB

6. Database After SQL Script

User4

Num	PID	Birthdate	Birthplace	Username	password	ProfilePic
1	10727	2013-11-11	Iran	mercurylover	x	{profile_pic}
2	34049	2003-05-05	Sydney, Australia	ardster	a	null
3	44550	1110-12-31	yash	yash	yash	null
4	58708	2023-11-10	n	n	n	{profile_pic}
5	70527	2003-05-05	9	9	7	null
6	76138	2023-11-07	russia	Gangwar	greg	null
7	76981	1110-12-31	a	a	a	{profile_pic}
8	29384756	2000-06-27	Texas, USA	squaresalad	Egalitarianism	{profile_pic}
9	41902873	1968-11-02	Indiana, USA	twocoffeedeonemommy	ilovemygrandkids123	{profile_pic}

10	62519038	2014-09-19	Ontario, Canada	PORK_MAN	Fortnite@123	{profile_pic}
11	80172634	1945-12-12	New Jersey, USA	tillyfumpy	ChickenButt	{profile_pic}
12	83726415	2003-05-28	Manitoba, Canada	AngelPretty	makeup1	{profile_pic}

User3

Num	Username	Birthdate	Age
1	9	2003-05-05	20
2	a	1110-12-31	10
3	AngelPretty	2003-05-28	20
4	ardster	2003-05-05	10
5	Gangwar	2023-11-07	10
6	mercurylover	2013-11-11	10
7	n	2023-11-10	10
8	PORK_MAN	2014-09-19	9
9	squaresalad	2000-06-27	23
10	tillyfumpy	1945-12-12	77
11	twocoffeeonemommy	1968-11-02	55
12	yash	1110-12-31	912

User2

Num	Username	Name
1	9	7
2	a	a
3	AngelPretty	Sofia Cavalry
4	ardster	Ardi
5	Gangwar	Gregory
6	mercurylover	Amin
7	n	n
8	PORK_MAN	Hunter McKinnon
9	squaresalad	James Diaz
10	tillyfumpy	Howard Buggs
11	twocoffeeonemommy	Brenda Hepburn
12	yash	yash

User1

Num	Username	Email
1	9	7
2	a	a
3	AngelPretty	pretty_angel458@hotmial.com
4	ardster	ardi@ardi.com
5	Gangwar	greg@gmal.com
6	mercurylover	ramlover@aol.com
7	n	n
8	PORK_MAN	zapbran7777@gmail.com
9	squaresalad	diaz.minecraft@gmail.com
10	tillyfumpy	Howard.S.Buggs1945@gmail.com
11	twocoffeeonemommy	brenda.hepburn1968@gmail.com
12	yash	yash@yash.yash

Follows

Num	Followerid	Followeeid	Follow_date
1	10727	80172634	2023-11-28
2	10727	83726415	2023-11-28
3	58708	70527	2023-11-30
4	58708	76981	2023-11-29
5	58708	83726415	2023-11-29
6	62519038	29384756	2023-05-05
7	62519038	41902873	2023-05-05
8	62519038	62519038	2023-05-05
9	62519038	80172634	2023-05-05
10	62519038	83726415	2023-05-05

Artist2

PID	Name	Birthdate	Birthplace	Genre	Description	Label	Is dead
32512674	Drake	1986-10-24	Toronto, Canada	Hip-Hop	{description}	OVO Sound	0
48297392	Kendrick Lamar	1987-06-17	Compton, California, USA	Hip-Hop	{description}	Top Dawg Entertainment	0
52033688	Ryo Fukui	1948-06-01	Biratori, Hokkaido, Japan	Jazz	{description}	Independent	1
62043498	NAV	1989-11-03	Toronto, Canada	Hip-Hop	{description}	XO	0

89320472	Kanye West	1977-06-08	Atlanta, Georgia, USA	Hip-Hop	{descrip- tion}	GOOD Mu- sic	0
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Artist1

Name	Birthdate	Is dead	Age
Drake	1986-10-24	0	36
Kanye West	1977-06-08	0	46
Kendrick Lamar	1987-06-17	0	36
NAV	1989-11-03	0	34
Ryo Fukui	1948-06-01	1	67

Review2

RID	PID	Review Date	Review Text	Likes	Dislikes
10031	58708	2023-11-29 15:23:13	Nice song wow	0	0
10153	58708	2023-11-29 15:48:16	meh	0	0
10164	44550	2023-11-29 19:57:10	mid	0	0
10471	58708	2023-11-30 00:51:07	great chart howard!!!	0	0
10484	58708	2023-11-30 01:14:04	tttt	0	0
10502	41902873	2023-11-25 00:00:00	THIS IS GREAT	0	0
10555	83726415	2023-11-28 18:21:08	10 bands heck yeah	0	0
10604	83726415	2023-11-29 15:37:44	drake yip yip	0	0
12345	62519038	2023-11-24 12:00:00	Testing division!	0	0
28249	58708	2023-12-01 00:28:23	pretty decent actually	0	0
39374	58708	2023-12-01 00:27:37	sooooooo overrated	0	0
39527	58708	2023-12-01 00:27:00	alright i guess	0	0
44873	58708	2023-11-29 15:23:38	i hate shrey	0	0
46653	58708	2023-12-01 00:27:07	LOVE IT	0	0
57874	58708	2023-12-01 00:27:25	I think that it could be better	0	0
65383	58708	2023-12-01 00:27:47	sooooooo amazing!	0	0
66620	58708	2023-12-01 00:28:40	horrible	0	0
12312312	83726415	2023-09-11 00:00:00	This is an amazing!	20	345
23423423	41902873	2023-09-12 00:00:00	I really enjoyed.	30	0
34534534	62519038	2023-09-13 00:00:00	Not my cup of tea.	5	3
45645645	29384756	2023-09-14 00:00:00	Decent effort.	19	5
56756756	80172634	2023-09-15 00:00:00	Could have been better.	27	18
67867867	83726415	2023-09-16 00:00:00	Absolutely breathtaking!	25	10
67867868	41902873	2023-09-17 00:00:00	This track is fire.	35	0
67867869	62519038	2023-09-18 00:00:00	A decent song but not my taste.	15	7

67867870	29384756	2023-09-19 00:00:00	A classic, never gets old.	29	6
67867871	80172634	2023-09-20 00:00:00	This song speaks volumes.	37	9
67867872	41902873	2023-09-21 00:00:00	This user chart has a great selection of albums!	40	4
67867873	83726415	2023-09-21 00:00:00	WOW!	40	7
67867874	83726415	2023-09-22 00:00:00	This kind of sucks ngl	20	400
67867875	83726415	2023-09-24 00:00:00	Great!	47	1
67867876	83726415	2023-09-26 00:00:00	Sucks!	15	45

Review1

Review Date	Likes	Dislikes	Helpfulness
2023-09-11 00:00:00	20	345	0
2023-09-12 00:00:00	30	0	5
2023-09-13 00:00:00	5	3	3
2023-09-14 00:00:00	19	5	4
2023-09-15 00:00:00	27	18	2
2023-09-16 00:00:00	25	10	5
2023-09-17 00:00:00	35	0	10
2023-09-18 00:00:00	15	7	7
2023-09-19 00:00:00	29	6	9
2023-09-20 00:00:00	37	9	8
2023-09-21 00:00:00	40	4	10
2023-11-24 12:00:00	0	0	0
2023-11-28 18:21:08	0	0	0
2023-11-29 15:23:13	0	0	0
2023-11-29 15:23:38	0	0	0
2023-11-29 15:37:44	0	0	0
2023-11-29 15:48:16	0	0	0
2023-11-29 19:57:10	0	0	0
2023-11-30 00:51:07	0	0	0
2023-11-30 01:14:04	0	0	0
2023-12-01 00:27:00	0	0	0
2023-12-01 00:27:07	0	0	0
2023-12-01 00:27:25	0	0	0
2023-12-01 00:27:37	0	0	0
2023-12-01 00:27:47	0	0	0
2023-12-01 00:28:23	0	0	0
2023-12-01 00:28:40	0	0	0

Comment2

Comment Date	Comment Text	Likes	Dislikes	RID	Review PID	Comment PID
2023-10-19 10:00:00	Loved this!	45	2	12312312	83726415	58708
2023-10-19 11:00:00	Absolutely agree.	50	1	23423423	41902873	58708
2023-10-19 12:30:00	I have mixed feelings.	38	10	34534534	62519038	58708
2023-10-19 13:45:00	Nice perspective!	24	4	45645645	29384756	58708
2023-10-19 15:00:00	Found this insightful.	60	5	56756756	80172634	58708
2023-11-28 19:44:43	sodia you weirdo	0	0	10555	83726415	58708
2023-11-28 19:45:20	i am not weird.	0	0	10555	83726415	83726415
2023-11-28 19:46:13	ur prety weird buddy jus sayin	0	0	10555	83726415	58708
2023-11-28 20:05:28	12	0	0	10555	83726415	58708
2023-11-29 02:37:09	34	0	0	10555	83726415	58708
2023-11-29 02:49:49	Lorem ipsum...	0	0	10555	83726415	58708
2023-11-29 15:34:04	branda you did it again	0	0	67867868	41902873	41902873
2023-11-29 16:02:16	mid	0	0	10031	58708	70527
2023-11-29 16:02:25	i love you	0	0	10031	58708	70527
2023-11-29 16:09:09	I love you	0	0	10031	58708	70527
2023-11-29 16:09:31	why	0	0	10031	58708	70527
2023-11-29 16:11:01	you great	0	0	10031	58708	76981
2023-11-29 16:11:49	you great	0	0	10031	58708	76981
2023-11-29 16:13:04	man screw u	0	0	10031	58708	76981
2023-11-29 16:14:51	lollllll	0	0	10031	58708	76981

2023-11-29 16:15:22	lollllll	0	0	10031	58708	76981
2023-11-29 16:15:50	yoooo	0	0	10031	58708	76981
2023-11-29 16:15:59	yoooo	0	0	10031	58708	76981
2023-11-29 16:31:38	pls work	0	0	10031	58708	76981
2023-11-29 16:31:42	pls work	0	0	10031	58708	76981
2023-11-29 16:31:52	oml	0	0	10031	58708	76981
2023-11-29 19:57:53	yy	0	0	10031	58708	44550
2023-11-29 20:40:58	etst	0	0	10555	83726415	58708
2023-11-29 20:41:15	etst	0	0	10555	83726415	58708
2023-11-29 20:41:16	etst	0	0	10555	83726415	58708
2023-11-29 20:41:17	etst	0	0	10555	83726415	58708
2023-11-30 02:33:59	a	0	0	10031	58708	58708
2023-11-30 03:19:25	bad review man i hate this	0	0	10484	58708	76981

Comment1

Comment Date	Likes	Dislikes	Position
2023-10-19 10:00:00	45	2	1
2023-10-19 11:00:00	50	1	2
2023-10-19 12:30:00	38	10	3
2023-10-19 13:45:00	24	4	4
2023-10-19 15:00:00	60	5	5
2023-11-28 19:44:43	0	0	0
2023-11-28 19:45:20	0	0	0
2023-11-28 19:46:13	0	0	0
2023-11-28 20:05:28	0	0	0
2023-11-29 02:37:09	0	0	0
2023-11-29 02:49:49	0	0	0
2023-11-29 15:34:04	0	0	0

2023-11-29 16:02:16	0	0	0
2023-11-29 16:02:25	0	0	0
2023-11-29 16:09:09	0	0	0
2023-11-29 16:09:31	0	0	0
2023-11-29 16:11:01	0	0	0
2023-11-29 16:11:49	0	0	0
2023-11-29 16:13:04	0	0	0
2023-11-29 16:14:51	0	0	0
2023-11-29 16:15:22	0	0	0
2023-11-29 16:15:50	0	0	0
2023-11-29 16:15:59	0	0	0
2023-11-29 16:31:38	0	0	0
2023-11-29 16:31:42	0	0	0
2023-11-29 16:31:52	0	0	0
2023-11-29 19:57:53	0	0	0
2023-11-29 20:40:58	0	0	0
2023-11-29 20:41:15	0	0	0
2023-11-29 20:41:16	0	0	0
2023-11-29 20:41:17	0	0	0
2023-11-30 02:33:59	0	0	0
2023-11-30 03:19:25	0	0	0

Album

Album Name	Release Date	isSingle	Genre	Duration	Cover	Num Songs
DAMN	2017-04-17	0	Rap	4355	{cover}	14
Good Intentions	2020-05-08	0	Rap	179	{cover}	12
good kid, m.A.A.d city	2012-10-22	0	Hip-Hop	5745	{cover}	17
If You're Reading This It's Too Late	2015-02-13	0	Rap	299	{cover}	17
Late Registration	2005-08-30	0	Rap	2443	{cover}	21
Mr. Morale & the Big Steppers	2022-05-13	0	Rap	23424	{cover}	18
Scenery	1976-02-01	0	Jazz	644	{cover}	6
Scorpion	2018-06-29	0	Rap	2344	{cover}	25
Section 80	2011-07-02	0	Rap	2333	{cover}	15
The College Dropout	2003-09-30	0	Hip hop/UK R&B	226	{cover}	15

To Pimp a Butterfly	2015-03-15	0	Hip hop/Rap	275	{cover}	16
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Song

Song Name	Release Date	Duration	Genre
10 Bands	2015-02-13	178	Rap
6 God	2015-02-13	181	Rap
6 Man	2015-02-13	168	Rap
6PM In New York	2015-02-13	283	Rap
A.D.H,D.	2011-07-02	215	Rap
All Falls Down (ft. Syleena Johnson)	2003-09-30	224	Hip hop/UK R&B
Backseat Freestyle	2012-10-22	210	Hip-Hop
Bitch, Don't Kill My Vibe	2012-10-22	314	Hip-Hop
Black Boy Fly	2012-10-22	295	Hip-Hop
Breathe In Breathe Out (ft. Ludacris)	2003-09-30	246	Hip hop/UK R&B
Company (ft. Travi\$ Scott)	2015-02-13	253	Rap
Compton (ft. Dr. Dre)	2012-10-22	284	Hip-Hop
Did You Wrong	2020-05-08	179	Rap
DUCKWORTH	2018-06-29	232	Rap
Energy	2015-02-13	182	Rap
Family Business	2003-09-30	278	Hip hop/UK R&B
Get Em High (feat. Talib Kweli & Common)	2003-09-30	289	Hip hop/UK R&B
good kid	2012-10-22	228	Hip-Hop
Graduation Day	2003-09-30	82	Hip hop/UK R&B
I'll Fly Away	2003-09-30	70	Hip hop/UK R&B
Intro	2003-09-30	19	Hip hop/UK R&B
Jesus Walks	2003-09-30	193	Hip hop/UK R&B
Jungle	2015-02-13	320	Rap
Know Yourself	2015-02-13	100	Rap
Last Call	2003-09-30	760	Hip hop/UK R&B
Legend	2015-02-13	242	Rap
Lil Jimmy Skit	2003-09-30	53	Hip hop/UK R&B
m.A.A.d city (ft. MC Eiht)	2012-10-22	330	Hip-Hop
Madonna	2015-02-13	178	Rap
Money Trees (ft. Jay Rock)	2012-10-22	397	Hip-Hop
N95	2022-05-13	232	Rap
Never Let Me Down (ft. JAY-Z & J. Ivy)	2003-09-30	324	Hip hop/UK R&B
No Tellin'	2015-02-13	311	Rap
Now & Forever	2015-02-13	281	Rap
Now or Never (ft. Mary J. Blige)	2012-10-22	353	Hip-Hop

Poetic Justice (ft. Drake)	2012-10-22	311	Hip-Hop
Preach (ft. PARTYNEXTDOOR)	2015-02-13	237	Rap
Real (ft. Anna Wise)	2012-10-22	335	Hip-Hop
Roses	2005-08-30	244	Rap
School Spirit	2003-09-30	182	Hip hop/UK R&B
School Spirit Skit 1	2003-09-30	43	Hip hop/UK R&B
School Spirit Skit 2	2003-09-30	26	Hip hop/UK R&B
Sherane a.k.a Master Splinter's Daughter	2012-10-22	342	Hip-Hop
Sing About Me, I'm Dying of Thirst	2012-10-22	808	Hip-Hop
Slow Jamz	2003-09-30	316	Hip hop/UK R&B
Spaceship (ft. GLC & Consequence)	2003-09-30	324	Hip hop/UK R&B
Star67	2015-02-13	295	Rap
Survival	2018-06-29	232	Rap
Swimming Pools (Drank)	2012-10-22	319	Hip-Hop
The Art of Peer Pressure	2012-10-22	331	Hip-Hop
The New Workout Plan	2003-09-30	322	Hip hop/UK R&B
The Recipe (ft. Dr. Dre)	2012-10-22	320	Hip-Hop
Through the Wire	2003-09-30	100	Hip hop/UK R&B
Two Words (ft. Mos Def, Freeway & The Boys Choir of Harlem)	2003-09-30	265	Hip hop/UK R&B
Used To (ft. Lil Wayne)	2015-02-13	268	Rap
We Don't Care	2003-09-30	240	Hip hop/UK R&B
Wednesday Night Interlude (ft. PARTYNEXTDOOR)	2015-02-13	212	Rap
Wesley's Theory	2015-03-15	100	Hip hop/Rap
Workout Plan	2003-09-30	46	Hip hop/UK R&B
You & The 6	2015-02-13	265	Rap

AlbumSong

Album Name	Album Release Date	Song Name	Song Release Date
If You're Reading This It's Too Late	2015-02-13	10 Bands	2015-02-13
If You're Reading This It's Too Late	2015-02-13	6 God	2015-02-13
If You're Reading This It's Too Late	2015-02-13	6 Man	2015-02-13
If You're Reading This It's Too Late	2015-02-13	6PM In New York	2015-02-13
Section 80	2011-07-02	A.D.H,D.	2011-07-02

The College Dropout	2003-09-30	All Falls Down (ft. Syleena Johnson)	2003-09-30
good kid, m.A.A.d city	2012-10-22	Backseat Freestyle	2012-10-22
good kid, m.A.A.d city	2012-10-22	Bitch, Don't Kill My Vibe	2012-10-22
good kid, m.A.A.d city	2012-10-22	Black Boy Fly	2012-10-22
The College Dropout	2003-09-30	Breathe In Breathe Out (ft. Ludacris)	2003-09-30
If You're Reading This It's Too Late	2015-02-13	Company (ft. Travi\$ Scott)	2015-02-13
good kid, m.A.A.d city	2012-10-22	Compton (ft. Dr. Dre)	2012-10-22
Good Intentions	2020-05-08	Did You Wrong	2020-05-08
DAMN	2017-04-17	DUCKWORTH	2018-06-29
If You're Reading This It's Too Late	2015-02-13	Energy	2015-02-13
The College Dropout	2003-09-30	Family Business	2003-09-30
The College Dropout	2003-09-30	Get Em High (feat. Talib Kweli & Common)	2003-09-30
good kid, m.A.A.d city	2012-10-22	good kid	2012-10-22
The College Dropout	2003-09-30	Graduation Day	2003-09-30
The College Dropout	2003-09-30	I'll Fly Away	2003-09-30
The College Dropout	2003-09-30	Intro	2003-09-30
The College Dropout	2003-09-30	Jesus Walks	2003-09-30
If You're Reading This It's Too Late	2015-02-13	Jungle	2015-02-13
If You're Reading This It's Too Late	2015-02-13	Know Yourself	2015-02-13
The College Dropout	2003-09-30	Last Call	2003-09-30
If You're Reading This It's Too Late	2015-02-13	Legend	2015-02-13
The College Dropout	2003-09-30	Lil Jimmy Skit	2003-09-30
good kid, m.A.A.d city	2012-10-22	m.A.A.d city (ft. MC Eiht)	2012-10-22
If You're Reading This It's Too Late	2015-02-13	Madonna	2015-02-13
good kid, m.A.A.d city	2012-10-22	Money Trees (ft. Jay Rock)	2012-10-22
Mr. Morale & the Big Steppers	2022-05-13	N95	2022-05-13
The College Dropout	2003-09-30	Never Let Me Down (ft. JAY-Z & J. Ivy)	2003-09-30
If You're Reading This It's Too Late	2015-02-13	No Tellin'	2015-02-13

If You're Reading This It's Too Late	2015-02-13	Now & Forever	2015-02-13
good kid, m.A.A.d city	2012-10-22	Now or Never (ft. Mary J. Blige)	2012-10-22
good kid, m.A.A.d city	2012-10-22	Poetic Justice (ft. Drake)	2012-10-22
If You're Reading This It's Too Late	2015-02-13	Preach (ft. PARYNEXTDOOR)	2015-02-13
good kid, m.A.A.d city	2012-10-22	Real (ft. Anna Wise)	2012-10-22
Late Registration	2005-08-30	Roses	2005-08-30
The College Dropout	2003-09-30	School Spirit	2003-09-30
The College Dropout	2003-09-30	School Spirit Skit 1	2003-09-30
The College Dropout	2003-09-30	School Spirit Skit 2	2003-09-30
good kid, m.A.A.d city	2012-10-22	Sherane a.k.a Master Splinter's Daughter	2012-10-22
good kid, m.A.A.d city	2012-10-22	Sing About Me, I'm Dying of Thirst	2012-10-22
The College Dropout	2003-09-30	Slow Jamz	2003-09-30
The College Dropout	2003-09-30	Spaceship (ft. GLC & Consequence)	2003-09-30
If You're Reading This It's Too Late	2015-02-13	Star67	2015-02-13
Scorpion	2018-06-29	Survival	2018-06-29
good kid, m.A.A.d city	2012-10-22	Swimming Pools (Drank)	2012-10-22
good kid, m.A.A.d city	2012-10-22	The Art of Peer Pressure	2012-10-22
The College Dropout	2003-09-30	The New Workout Plan	2003-09-30
good kid, m.A.A.d city	2012-10-22	The Recipe (ft. Dr. Dre)	2012-10-22
The College Dropout	2003-09-30	Through the Wire	2003-09-30
The College Dropout	2003-09-30	Two Words (ft. Mos Def, Freeway & The Boys Choir of Harlem)	2003-09-30
If You're Reading This It's Too Late	2015-02-13	Used To (ft. Lil Wayne)	2015-02-13
The College Dropout	2003-09-30	We Don't Care	2003-09-30
If You're Reading This It's Too Late	2015-02-13	Wednesday Night Interlude (ft. PARYNEXTDOOR)	2015-02-13
To Pimp a Butterfly	2015-03-15	Wesley's Theory	2015-03-15
The College Dropout	2003-09-30	Workout Plan	2003-09-30
If You're Reading This It's Too Late	2015-02-13	You & The 6	2015-02-13

ArtistAlbum

PID	Album Name	Release Date
48297392	DAMN	2017-04-17
62043498	Good Intentions	2020-05-08
48297392	good kid, m.A.A.d city	2012-10-22
32512674	If You're Reading This It's Too Late	2015-02-13
89320472	Late Registration	2005-08-30
48297392	Mr. Morale & the Big Steppers	2022-05-13
52033688	Scenery	1976-02-01
32512674	Scorpion	2018-06-29
48297392	Section 80	2011-07-0
89320472	The College Dropout	2003-09-30
48297392	To Pimp a Butterfly	2015-03-15

ArtistSong

PID	Song Name	Release Date
32512674	10 Bands	2015-02-13
32512674	6 God	2015-02-13
32512674	6 Man	2015-02-13
32512674	6PM In New York	2015-02-13
48297392	A.D.H,D.	2011-07-02
89320472	All Falls Down (ft. Syleena Johnson)	2003-09-30
48297392	Backseat Freestyle	2012-10-22
48297392	Bitch, Don't Kill My Vibe	2012-10-22
48297392	Black Boy Fly	2012-10-22
89320472	Breathe In Breathe Out (ft. Ludacris)	2003-09-30
32512674	Company (ft. Travi\$ Scott)	2015-02-13
48297392	Compton (ft. Dr. Dre)	2012-10-22
62043498	Did You Wrong	2020-05-08
48297392	DUCKWORTH	2018-06-29
32512674	Energy	2015-02-13
89320472	Family Business	2003-09-30
89320472	Get Em High (feat. Talib Kweli & Common)	2003-09-30
48297392	good kid	2012-10-22
89320472	Graduation Day	2003-09-30
89320472	I'll Fly Away	2003-09-30
89320472	Intro	2003-09-30
89320472	Jesus Walks	2003-09-30
32512674	Jungle	2015-02-13
32512674	Know Yourself	2015-02-13

89320472	Last Call	2003-09-30
32512674	Legend	2015-02-13
89320472	Lil Jimmy Skit	2003-09-30
48297392	m.A.A.d city (ft. MC Eiht)	2012-10-22
32512674	Madonna	2015-02-13
48297392	Money Trees (ft. Jay Rock)	2012-10-22
48297392	N95	2022-05-13
89320472	Never Let Me Down (ft. JAY-Z & J. Ivy)	2003-09-30
32512674	No Tellin'	2015-02-13
32512674	Now & Forever	2015-02-13
48297392	Now or Never (ft. Mary J. Blige)	2012-10-22
48297392	Poetic Justice (ft. Drake)	2012-10-22
32512674	Preach (ft. PARTYNEXTDOOR)	2015-02-13
48297392	Real (ft. Anna Wise)	2012-10-22
89320472	Roses	2005-08-30
89320472	School Spirit	2003-09-30
89320472	School Spirit Skit 1	2003-09-30
89320472	School Spirit Skit 2	2003-09-30
48297392	Sherane a.k.a Master Splinter's Daughter	2012-10-22
48297392	Sing About Me, I'm Dying of Thirst	2012-10-22
89320472	Slow Jamz	2003-09-30
89320472	Spaceship (ft. GLC & Consequence)	2003-09-30
32512674	Star67	2015-02-13
32512674	Survival	2018-06-29
48297392	Swimming Pools (Drank)	2012-10-22
48297392	The Art of Peer Pressure	2012-10-22
89320472	The New Workout Plan	2003-09-30
48297392	The Recipe (ft. Dr. Dre)	2012-10-22
89320472	Through the Wire	2003-09-30
89320472	Two Words (ft. Mos Def, Freeway & The Boys Choir of Harlem)	2003-09-30
32512674	Used To (ft. Lil Wayne)	2015-02-13
89320472	We Don't Care	2003-09-30
32512674	Wednesday Night Interlude (ft. PARTYNEXTDOOR)	2015-02-13
48297392	Wesley's Theory	2015-03-15
89320472	Workout Plan	2003-09-30
32512674	You & The 6	2015-02-13

AlbumReview

PID	RID	Album Name	Release Date	Rating
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58708	28249	Late Registration	2005-08-30	4
58708	39374	To Pimp a Butterfly	2015-03-15	0
58708	39527	Mr. Morale & the Big Steppers	2022-05-13	1
58708	44873	The College Dropout	2003-09-30	5
58708	46653	DAMN	2017-04-17	5
58708	57874	Section 80	2011-07-02	3
58708	65383	good kid, m.A.A.d city	2012-10-22	5
58708	66620	Scorpion	2018-06-29	0
29384756	45645645	The College Dropout	2003-09-30	5
41902873	23423423	Good Intentions	2020-05-08	4
62519038	12345	Good Intentions	2020-05-08	1
62519038	34534534	If You're Reading This It's Too Late	2015-02-13	5
80172634	56756756	To Pimp a Butterfly	2015-03-15	5

SongReview

PID	RID	Song Name	Release Date	Rating
44550	10164	10 Bands	2015-02-13	1
58708	10031	good kid	2012-10-22	5
58708	10153	10 Bands	2015-02-13	1
29384756	67867870	Through the Wire	2003-09-30	5
41902873	10502	Did You Wrong	2020-05-08	0
41902873	67867868	Did You Wrong	2020-05-08	4
62519038	67867869	Know Yourself	2015-02-13	5
80172634	67867871	Wesley's Theory	2015-03-15	5
83726415	10555	10 Bands	2015-02-13	5
83726415	10604	6 God	2015-02-13	4

Playlist

PID	Playlist Name	Creation Date	Image	Description
58708	Drake and Other Cool Rappers	2023-11-28		my goats!
58708	gbgbngbngbnbnbn	2023-11-29		
58708	hh	2023-11-29		hh
58708	Hip Hop Classics	2023-09-22	{image}}	Take a trip down memory lane with these hip hop classics.
58708	Jazz Vibes	2023-09-20	{image}	Relax with some smooth jazz tunes.
58708	NAME	2023-11-28		DESC
58708	Nice playlist	2023-11-29		
58708	R&B Soul	2023-09-23	{image}	Soothing R&B for the soul.

58708	Rap Essentials	2023-09-21	{image}	The hottest rap tracks right now.
58708	super rap playlist	2023-11-28		my rap songs i like a lot.
58708	Top Hits	2023-09-24	{image}	The chart-topping hits everyone is listening to.

PlaylistSong

PID	Playlist Name	Creation Date	Song Name	Release Date
58708	gbgbngbngbnbnbn	2023-11-29	10 Bands	2015-02-13
58708	Nice playlist	2023-11-29	10 Bands	2015-02-13
58708	hh	2023-11-29	6 God	2015-02-13
58708	Drake and Other Cool Rappers	2023-11-28	Did You Wrong	2020-05-08
58708	NAME	2023-11-28	Did You Wrong	2020-05-08
58708	Rap Essentials	2023-09-21	Did You Wrong	2020-05-08
58708	super rap playlist	2023-11-28	Did You Wrong	2020-05-08
58708	Drake and Other Cool Rappers	2023-11-28	Energy	2015-02-13
58708	Nice playlist	2023-11-29	Family Business	2003-09-30
58708	Nice playlist	2023-11-29	Get Em High (feat. Talib Kweli & Common)	2003-09-30
58708	Nice playlist	2023-11-29	good kid	2012-10-22
58708	Nice playlist	2023-11-29	Graduation Day	2003-09-30
58708	Nice playlist	2023-11-29	I'll Fly Away	2003-09-30
58708	Nice playlist	2023-11-29	Intro	2003-09-30
58708	R&B Soul	2023-09-23	Know Yourself	2015-02-13
58708	super rap playlist	2023-11-28	Know Yourself	2015-02-13
58708	Nice playlist	2023-11-29	Money Trees (ft. Jay Rock)	2012-10-22
58708	Drake and Other Cool Rappers	2023-11-28	Preach (ft. PARTYNEXTDOOR)	2015-02-13
58708	Nice playlist	2023-11-29	The Art of Peer Pressure	2012-10-22
58708	Drake and Other Cool Rappers	2023-11-28	Through the Wire	2003-09-30
58708	Hip Hop Classics	2023-09-22	Through the Wire	2003-09-30
58708	super rap playlist	2023-11-28	Through the Wire	2003-09-30
58708	Jazz Vibes	2023-09-20	Wesley's Theory	2015-03-15
58708	NAME	2023-11-28	Wesley's Theory	2015-03-15
58708	super rap playlist	2023-11-28	Wesley's Theory	2015-03-15
58708	Top Hits	2023-09-24	Wesley's Theory	2015-03-15
58708	Drake and Other Cool Rappers	2023-11-28	You & The 6	2015-02-13

Userchart

UCID	Userchart Name	Image	PID
11680	AllKendrick		58708
42359	AllDrakeAllKanye		58708
45211	4Kendrick		58708
55223	BFRH	{image}	58708
73355	AllKendrickAllDrake1Kanye		58708
666666	N's TOP 5 ALBUMS OAT	{image}	58708
10626411	Howard's Top 5 Albums		80172634
10626412	James's Top 5 Albums		29384756
10626413	Hunter's Top 5 Albums		62519038
10626414	Brenda's Top 5 Albums		41902873
10626415	My Favorite Albums		83726415

UserchartAlbum

UCID	PID	Album Name	Release Date	Ranking
11680	58708	DAMN	2017-04-17	1
11680	58708	good kid, m.A.A.d city	2012-10-22	2
11680	58708	Mr. Morale & the Big Steppers	2022-05-13	3
11680	58708	Section 80	2011-07-02	4
11680	58708	To Pimp a Butterfly	2015-03-15	5
42359	58708	If You're Reading This It's Too Late	2015-02-13	1
42359	58708	Late Registration	2005-08-30	3
42359	58708	Scorpion	2018-06-29	2
42359	58708	The College Dropout	2003-09-30	4
45211	58708	DAMN	2017-04-17	1
45211	58708	good kid, m.A.A.d city	2012-10-22	2
45211	58708	Mr. Morale & the Big Steppers	2022-05-13	3
45211	58708	Section 80	2011-07-02	4
55223	58708	Good Intentions	2020-05-08	1
55223	58708	good kid, m.A.A.d city	2012-10-22	2
55223	58708	If You're Reading This It's Too Late	2015-02-13	4
55223	58708	The College Dropout	2003-09-30	5
55223	58708	To Pimp a Butterfly	2015-03-15	3
73355	58708	DAMN	2017-04-17	3
73355	58708	good kid, m.A.A.d city	2012-10-22	5
73355	58708	If You're Reading This It's Too Late	2015-02-13	1
73355	58708	Mr. Morale & the Big Steppers	2022-05-13	6

73355	58708	Scorpion		2018-06-29	2
73355	58708	Section 80		2011-07-02	7
73355	58708	The College Dropout		2003-09-30	4
73355	58708	To Pimp a Butterfly		2015-03-15	8
666666	58708	Good Intentions		2020-05-08	5
666666	58708	good kid, m.A.A.d city		2012-10-22	1
666666	58708	If You're Reading This It's Too Late		2015-02-13	2
666666	58708	The College Dropout		2003-09-30	4
666666	58708	To Pimp a Butterfly		2015-03-15	3
10626411	80172634	Good Intentions		2020-05-08	5
10626411	80172634	If You're Reading This It's Too Late		2015-02-13	4
10626411	80172634	The College Dropout		2003-09-30	2
10626411	80172634	To Pimp a Butterfly		2015-03-15	1
10626412	29384756	Good Intentions		2020-05-08	4
10626412	29384756	If You're Reading This It's Too Late		2015-02-13	1
10626412	29384756	The College Dropout		2003-09-30	2
10626412	29384756	To Pimp a Butterfly		2015-03-15	3
10626413	62519038	Good Intentions		2020-05-08	4
10626413	62519038	If You're Reading This It's Too Late		2015-02-13	5
10626413	62519038	The College Dropout		2003-09-30	1
10626413	62519038	To Pimp a Butterfly		2015-03-15	2
10626414	41902873	Good Intentions		2020-05-08	2
10626414	41902873	If You're Reading This It's Too Late		2015-02-13	3
10626414	41902873	The College Dropout		2003-09-30	4
10626414	41902873	To Pimp a Butterfly		2015-03-15	5
10626415	83726415	Good Intentions		2020-05-08	2
10626415	83726415	If You're Reading This It's Too Late		2015-02-13	3
10626415	83726415	The College Dropout		2003-09-30	4
10626415	83726415	To Pimp a Butterfly		2015-03-15	5

UserchartReview

UCID	UC_PID	RV_PID	RID	Rating
55223	58708	58708	10484	1
10626411	80172634	58708	10471	4
10626411	80172634	83726415	67867876	0
10626412	29384756	83726415	67867875	2
10626413	62519038	83726415	67867874	5
10626414	41902873	83726415	67867873	3
10626415	83726415	41902873	67867872	4