

INFORMATION COMMUNICATION TECHNOLOGIES Individual Project

Boys Band

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This database about a band called The Neighbourhood. Through this database, we can get data. Information about the group's record label, members, studio albums, music videos and awards. And also data about member's activity which includes data as occupations, genres, instruments.

Title: "The Neighbourhood"

Tables: record_label, band, members, activity, st_albums, desc_a, music_videos, awards

Fields for:

- 1. Record label: rl id, rl name, founded, founder;
- 2. Band: band_id, band_name, abbreviation, crate_date, origin_town, rl_id;
- 3. Members: m_id, m_name, m_surname, birth_date, birth_place, band_id;
- 4. Activity: activity_id, occupation, genre, instrument, m_id;
- 5. Studio albums: album_id, title, released, producer, band_id;
- 6. Desc album: track_id, title, producer, length, album_id;
- 7. Music videos: mv_id, title, year, director, band_id;
- 8. Awards: award_id, year, nominee, award, result, band_id;

Relationships:

Band (1:1) record_label;

Band (1:N) member;

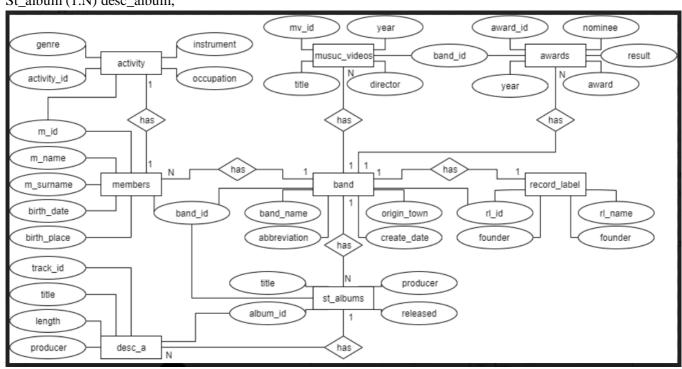
Band (1:N) studio_albums;

Band (1:N) music_videos;

Band (1:N) awards;

Member (1:1) activity;

St album (1:N) desc album;



-- Record label table

4	rl_id [PK] character varying	rl_name text	founded date	founder text	
1	CR87	Columbia Records	1887-12-01	Edward D. Easton	

--Band table

4	band_id [PK] character varying	band_name text	abbreviation text	A	create_date date	GA1	origin_town text	p.	rl_id character varying	Ø ³
1	NBHD11	The Neighbourhood	THE NBHD		2011-11-09		Newbury Park		CR87	

--Members table

4	m_id [PK] character varying	m_name text	m_surname text	birth_date date	birth_place text	band_id character varying
1	JR1	Jesse	Rutherford	1991-08-21	Newbury Park	NBHD11
2	ZA2	Zachary	Abels	1992-07-03	Simi Valley	NBHD11
3	JF2	Jeremy	Freedman	1992-07-02	Simi Valley	NBHD11
4	MM3	Michael	Margott	1993-10-01	Simi Valley	NBHD11
5	BF0	Brandon	Fried	1990-11-06	Newbury Park	NBHD11

--Activity table

4	activity_id [PK] character varying	m_id character varying	occupation text	genre text	instrument text
1	AA1	JR1	singer	alternative	vocals
2	AA2	ZA2	guitarist	indie	guitar
3	AA3	JF2	guitarist	indie	guitar
4	AA4	MM3	bassist	alternative	bass guitar
5	AA5	BF0	drummer	alternative	drums

--Studio albums table

4	album_id [PK] character varying	title text	released date	producer text	band_id character varying
1	ILY13	I Love You	2013-04-22	Emile Haynie	NBHD11
2	WO15	Wiped Out!	2015-10-30	Justyn Pilbrow	NBHD11
3	TN18	The Neighbourhood	2018-03-09	Lars Stalfors	NBHD11

-- Album description table

	track_id .	title	producer	length .	album_id _
_4	[PK] charact		text		character va
1	H1	How	Emile Haynie	05:14:00	ILY13
2	A2	Afraid	Justyn Pilbrow	04:11:00	ILY13
3	E3	Everybody is Watching Me	Emile Haynie	03:58:00	ILY13
4	S4	Sweater Weather	Justyn Pilbrow	03:56:00	ILY13
5	L5	Let It Go	Emile Haynie	03:17:00	ILY13
6	A6	Alleyways	Justyn Pilbrow	04:27:00	ILY13
7	W7	W.D.Y.W.F.M?	Justyn Pilbrow	04:19:00	ILY13
8	F8	Flawless	Emile Haynie	04:06:00	ILY13
9	F9	Female Robbery	Justyn Pilbrow	03:29:00	ILY13
10	S10	Staying Up	Justyn Pilbrow	04:28:00	ILY13
11	F11	Float	Emile Haynie	04:21:00	ILY13
12	A1	A Moment of Silence	Emile Haynie	00:30:00	W015
13	P2	Prey	Emile Haynie	04:47:00	W015
14	C3	Cry Baby	Justyn Pilbrow	03:56:00	WO15
15	W4	Wiped Out	Emile Haynie	06:15:00	WO15
16	T5	The Beach	Justyn Pilbrow	04:17:00	WO15
17	D6	Daddy Issues	Emile Haynie	04:20:00	WO15
18	B7	Baby Came Home 2 / Valentines	Justyn Pilbrow	06:35:00	WO15
19	G8	Greetings from Califournia	Emile Haynie	03:50:00	WO15
20	Fe9	Ferrari	Justyn Pilbrow	03:03:00	WO15
21	Si10	Single	Justyn Pilbrow	04:20:00	WO15
22	R11	R.I.P. 2 My Youth	Justyn Pilbrow	03:27:00	WO15
23	F1	Flowers	Lars Stalfors	03:18:00	TN18
24	S2	Scary Love	Mighty Mike	03:44:00	TN18
25	N3	Nervous	Lars Stalfors	04:09:00	TN18
26	V4	Void	Lars Stalfors	03:25:00	TN18
27	S5	Softcore	Lars Stalfors	03:28:00	TN18
28	B6	Blue	Brady Bates	03:13:00	TN18
29	S7	Sadderdaze	Brady Bates	04:10:00	TN18
30	R8	Revenge	Brady Bates	03:19:00	TN18
31	Y9	You Get Me So High	Mighty Mike	02:33:00	TN18
32	R10	Reflections	Lars Stalfors	04:04:00	TN18
33	T11	Too Serious	Brady Bates	03:13:00	TN18
34	S12	Stuck with Me	Mighty Mike	04:18:00	TN18

-- Music videos table

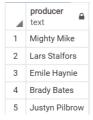
4	mv_id [PK] charact	title text	year integer	director text	band_id character varying
1	F1	Female Robbery	2012	ENDS	NBHD11
2	L2	Let It Go	2012	ENDS	NBHD11
3	A3	A Little Death	2012	ENDS	NBHD11
4	S4	Sweater Weather	2013	ENDS	NBHD11
5	A5	Afraid	2013	ENDS	NBHD11
6	L6	Lurk	2014	N/A	NBHD11
7	17	#icanteven	2015	Eif Rivera	NBHD11
8	D8	Dangerous	2015	Jake Janisse	NBHD11
9	W10	Warm	2015	Dexter Navy	NBHD11
10	R11	R.I.P. 2 My Youth	2015	Hype Williams	NBHD11
11	D12	Daddy Issues	2016	Warren Kommers	NBHD11
12	H13	Hard to Imagine	2018	Jack Begert	NBHD11
13	S14	Scary Love	2018	Jennifer Juniper Stratford	NBHD11

--Awards table

4	award_id . [PK] integer	year integer	nominee text	award ext	result text	band_id character va
1	111	2016	The NBHD	Top Group	Nominated	NBHD11
2	222	2016	The NBHD	Top Rock Artist	Won	NBHD11
3	333	2016	Wiped Out!	Top Rock Album	Won	NBHD11
4	444	2016	R.I.P. 2 My Youth	Top Rock Song	Won	NBHD11
5	555	2018	The Neighbourhood	Top Billboard 200 Album	Nominated	NBHD11
6	666	2018	The Neighbourhood	Top Rock Album	Nominated	NBHD11
7	777	2018	Too Serious	Top Hot 100 Song	Nominated	NBHD11
8	888	2018	Too Serious	Top Selling Song	Nominated	NBHD11

--EXERCISES

--ex 1: Write a query to distinct the producers of tracks.



--ex 2: Write a query to find the name and surname of the members who are guitarist.



--ex 3: Write a query to display album name and id with the count of tracks for each album.



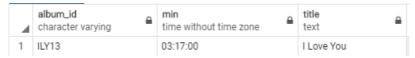
--ex 4: Write a query to display album name and id with the sum of tracks' length for each album.

4	album_id [PK] character	title text	sum interval
1	ILY13	I Love You	45:46:00
2	W015	Wiped Out!	45:20:00
3	TN18	The Neighbourhood	42:54:00

albums.

4	album_id character varying	title text	length time without
1	ILY13	Sweater Weather	03:56:00
2	ILY13	Let It Go	03:17:00
3	ILY13	Female Robbery	03:29:00
4	W015	A Moment of Sile	00:30:00
5	W015	Cry Baby	03:56:00
6	W015	Greetings from C	03:50:00
7	W015	Ferrari	03:03:00
8	W015	R.I.P. 2 My Youth	03:27:00
9	TN18	Flowers	03:18:00
10	TN18	Scary Love	03:44:00
11	TN18	Void	03:25:00
12	TN18	Softcore	03:28:00
13	TN18	Blue	03:13:00
14	TN18	Revenge	03:19:00
15	TN18	You Get Me So Hi	02:33:00
16	TN18	Too Serious	03:13:00

--ex 6: Write a query to find an album id, title and min length of track from the album which has title 'I Love You'.



--ex 7: Write a query to find an album id, title and max length of track from all albums.



--ex 8: Write a query to display all information about music videos except information between 2013-AND '2015'.

4	mv_id [PK] character	title text	year integer	director text	band_id character vary
1	F1	Female Robbery	2012	ENDS	NBHD11
2	L2	Let It Go	2012	ENDS	NBHD11
3	А3	A Little Death	2012	ENDS	NBHD11
4	D12	Daddy Issues	2016	Warren Kommers	NBHD11
5	H13	Hard to Imagine	2018	Jack Begert	NBHD11
6	S14	Scary Love	2018	Jennifer Juniper Stratford	NBHD11

--ex 9: Write a query to find all information about awards, but award name must starting to 'Top' and result is 'Won'.

	award_id [PK] integer	year integer	nominee text	award text	result text	band_id character vary
1	222	2016	The NBHD	Top Rock Artist	Won	NBHD11
2	333	2016	Wiped Out!	Top Rock Album	Won	NBHD11
3	444	2016	R.I.P. 2 My Youth	Top Rock Song	Won	NBHD11

--ex 10: Write a query to find a count of the track, producer, the title of an album that have count less than 12.



--ex 11: Write a query to display desc_a's track_id, title, a producer at which filmed clip.

4	track_id [PK] charact	title text	producer text
1	A2	Afraid	Justyn Pilbrow
2	S4	Sweater Weather	Justyn Pilbrow
3	L5	Let It Go	Emile Haynie
4	F9	Female Robbery	Justyn Pilbrow
5	D6	Daddy Issues	Emile Haynie
6	R11	R.I.P. 2 My Youth	Justyn Pilbrow
7	S2	Scary Love	Mighty Mike

--ex 12: Write a query to display music video's title, year, director whose surname or name starting to letter 'J' or ending to letter 's'.

4	title text	year integer	director text
1	Dangerous	2015	Jake Janisse
2	R.I.P. 2 My You	2015	Hype Williams
3	Daddy Issues	2016	Warren Kommers
4	Hard to Imagine	2018	Jack Begert
5	Scary Love	2018	Jennifer Juniper Stratford

--ex 13: Write a query to find information about desc_a's album_id and title which has a length of the title more than 17 or equal to 17. And write the length of title as len_title.

4	album_id character var	title text	len_title integer	
1	ILY13	Everybody is Watching Me		24
2	W015	A Moment of Silence		19
3	W015	Baby Came Home 2 / Valentines		29
4	W015	Greetings from Califournia		26
5	W015	R.I.P. 2 My Youth		17
6	TN18	You Get Me So High		18

--ex 14: Write a query to find information about album's title, released date, album_id and length of tracks that less than the average length except where album_id is 'ILY13'.

	title text	length time witho	released date	album_id character va
1	A Moment of Silence	00:30:00	2015-10-30	W015
2	Cry Baby	03:56:00	2015-10-30	W015
3	Greetings from Calif	03:50:00	2015-10-30	W015
4	Ferrari	03:03:00	2015-10-30	W015
5	R.I.P. 2 My Youth	03:27:00	2015-10-30	W015
6	Flowers	03:18:00	2018-03-09	TN18
7	Scary Love	03:44:00	2018-03-09	TN18
8	Void	03:25:00	2018-03-09	TN18
9	Softcore	03:28:00	2018-03-09	TN18
10	Blue	03:13:00	2018-03-09	TN18
11	Revenge	03:19:00	2018-03-09	TN18
12	You Get Me So High	02:33:00	2018-03-09	TN18
13	Too Serious	03:13:00	2018-03-09	TN18

--ex 15: Write a query to find the name of tracks, on which the music video was shot and date, director, the title of albums in order by date.

4	desc_a_title text	year integer	director ext	st_a_title text □
1	Let It Go	2012	ENDS	I Love You
2	Female Robbery	2012	ENDS	I Love You
3	Sweater Weather	2013	ENDS	I Love You
4	Afraid	2013	ENDS	I Love You
5	R.I.P. 2 My Youth	2015	Hype Williams	Wiped Out!
6	Daddy Issues	2016	Warren Kommers	Wiped Out!
7	Scary Love	2018	Jennifer Juniper Stratford	The Neighbourhood

--ex 16: Write a query to find name of songs which had nominated with its result and award.

4	title text	award ext	result a
1	R.I.P. 2 My Youth	Top Rock Song	Won
2	Too Serious	Top Selling Song	Nominated
3	Too Serious	Top Hot 100 Song	Nominated

--ex 17: Write a query to find the name of albums which had awarded and its results of the award.

4	title text	award ext	result text
1	The Neighbourhood	Top Billboard 200 Album	Nominated
2	The Neighbourhood	Top Rock Album	Nominated
3	Wiped Out!	Top Rock Album	Won

--ex 18: Write a subquery to find information about album_id, the title of tracks and the producer of an album whose name is Lars Stalfors.

	title text	producer text	album_id character varying
1	Flowers	Lars Stalfors	TN18
2	Scary Love	Mighty Mike	TN18
3	Nervous	Lars Stalfors	TN18
4	Void	Lars Stalfors	TN18
5	Softcore	Lars Stalfors	TN18
6	Blue	Brady Bates	TN18
7	Sadderdaze	Brady Bates	TN18
8	Revenge	Brady Bates	TN18
9	You Get Me So High	Mighty Mike	TN18
10	Reflections	Lars Stalfors	TN18
11	Too Serious	Brady Bates	TN18
12	Stuck with Me	Mighty Mike	TN18

--ex 19: Write a subquery to find member name, his genre and have birth_date after than someone else.

4	m_name text	birth_date date	genre text
1	Jesse	1991-08-21	alternative
2	Zachary	1992-07-03	indie
3	Jeremy	1992-07-02	indie
4	Brandon	1990-11-06	alternative

--ex 20: Write a subquery to find all name of tracks, on which the music video was shot and date of mv, the title of albums, released date which before than the 2014 year.

4	track_title text □	year integer	released date	album_title text
1	R.I.P. 2 My Youth	2015	2015-10-30	Wiped Out!
2	Daddy Issues	2016	2015-10-30	Wiped Out!
3	Scary Love	2018	2018-03-09	The Neighbourhood

--ex 21: Write a subquery to find information about album_id, the title of tracks and the producer of an album whose name is not Emile Haynie.

4	title text	producer atext	album_id character varying □
1	A Moment of Silence	Emile Haynie	W015
2	Prey	Emile Haynie	W015
3	Cry Baby	Justyn Pilbrow	W015
4	Wiped Out	Emile Haynie	W015
5	The Beach	Justyn Pilbrow	W015
6	Daddy Issues	Emile Haynie	W015
7	Baby Came Home 2 /	Justyn Pilbrow	W015
8	Greetings from Califo	Emile Haynie	W015
9	Ferrari	Justyn Pilbrow	W015
10	Single	Justyn Pilbrow	W015
11	R.I.P. 2 My Youth	Justyn Pilbrow	W015
12	Flowers	Lars Stalfors	TN18
13	Scary Love	Mighty Mike	TN18
14	Nervous	Lars Stalfors	TN18
15	Void	Lars Stalfors	TN18
16	Softcore	Lars Stalfors	TN18
17	Blue	Brady Bates	TN18
18	Sadderdaze	Brady Bates	TN18
19	Revenge	Brady Bates	TN18
20	You Get Me So High	Mighty Mike	TN18
21	Reflections	Lars Stalfors	TN18
22	Too Serious	Brady Bates	TN18
23	Stuck with Me	Mighty Mike	TN18

--ex 22: Write a subquery to find all name of tracks, on which the music video was shot and date of mv, released date of albums, the title of albums which do not have the same name as a full name of the band. (2 solution)

4	track_title text □	released date	album_title text
1	Afraid	2013-04-22	I Love You
2	Daddy Issues	2015-10-30	Wiped Out!
3	Female Robbery	2013-04-22	I Love You
4	Let It Go	2013-04-22	I Love You
5	R.I.P. 2 My Youth	2015-10-30	Wiped Out!
6	Sweater Weather	2013-04-22	I Love You
-2			
4	track_title text	released adate	album_title text
1			
_	text	date	text
1	text Afraid	date 2013-04-22	text I Love You
1 2	text Afraid Daddy Issues	date 2013-04-22 2015-10-30	text I Love You Wiped Out!
1 2 3	text Afraid Daddy Issues Female Robbery	date 2013-04-22 2015-10-30 2013-04-22	text I Love You Wiped Out! I Love You

---ADDITIONAL:

---ex 23: Write a query to find members name, occupations, birth date that after the 1992 year and occupation is guitarist or bassist

4	m_name text	birth_date ated	occupation atext
1	Zachary	1992-07-03	guitarist
2	Jeremy	1992-07-02	guitarist
3	Michael	1993-10-01	bassist

---ex 24: Write a query to find all the information about desc_a where the track has a title which starting to letter 'F' and ending to letter 's'

4	track_id [PK] character varying	title text	producer text	length time without	album_id character varying
1	F8	Flawless	Emile Haynie	04:06:00	ILY13
2 F1		Flowers	Lars Stalfors	03:18:00	TN18

---ex 25: Write a query to find album_id, title of track, released date, producer whose surname ending to letter 's'

4	album_id character varying □	title text ≘	producer text	released date
1	TN18	Flowers	Lars Stalfors	2018-03-09
2	TN18	Nervous	Lars Stalfors	2018-03-09
3	TN18	Void	Lars Stalfors	2018-03-09
4	TN18	Softcore	Lars Stalfors	2018-03-09
5	TN18	Blue	Brady Bates	2018-03-09
6	TN18	Sadder	Brady Bates	2018-03-09
7	TN18	Revenge	Brady Bates	2018-03-09
8	TN18	Reflect	Lars Stalfors	2018-03-09
9	TN18	Too Se	Brady Bates	2018-03-09

---ex 26: Write a query to find members name, genre, occupation, instrument except where the genre is indie

	4	m_name text	genre text	occupation atext	instrument text
I	1	Jesse	alternative	singer	vocals
	2	Brandon	alternative	drummer	drums
	3	Michael	alternative	bassist	bass guitar

--ex 27: Write a query to find members name, genre, occupation, instrument where the instrument is a guitar (2 ways)



---ex 28: Write a query to find band name and them nominee, award, a result that has 'won'

4	band_name text	nominee text	award text	result text
1	The Neighbourhood	R.I.P. 2 My Youth	Top Rock Song	Won
2	The Neighbourhood	Wiped Out!	Top Rock Album	Won
3	The Neighbourhood	The NBHD	Top Rock Artist	Won

--ex 29: Write a query to count an average length of tracks from all albums

4	avg_length_title interval	
1	03:56:28.235294	