

University of British Columbia

Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 4

Date: Dec 1st, 2023 – Group Number: 23

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Repository Link

https://github.students.cs.ubc.ca/CPSC304-2023W-T1/project_g5y8v_i9d4c_w0i3b

DDL Script

The SQL script to create the required tables, as well as to insert sample data so that one may test the application, can be found in the GitHub repository under the name `ddl4.sql`. Of note are the default values for Film, Book, Creator, Media, Comment, Club, Discussion, and Reply. Initially we used triggers and sequences to assign unique integer values for the ID column (which is the primary key) for any tuple added to the tables above. However, because the triggers and sequences became a bit messy, it was decided to use the identity keyword to generate the unique ID. By using the value generated on identity as the default value for the ID column of almost all the tables, it was ensured that the primary key was separated from the domain of the data represented in these tables and that there was no chance of inserting a tuple with an ID that already existed.

Project Description

Our application is a social media platform where users can track books and movies that they have consumed. It is similar in concept to applications such as GoodReads or MyAnimeList, but contains both books and movies. The application's core features include rating and reviewing media, as well as posting discussions on any media of the user's choice. It allows users to browse and to favourite media that they enjoyed. Users also have the ability to join clubs, which are group forums where users with similar interests can share their thoughts in comments and discussions posts.

Schema Updates

- In the "USERS" table, we changed the primary key from "id" to the email that they signed up with to reduce the redundancy of generating an id when there is an available candidate key.
- `has_consumed` was removed, as it did not offer different information than the `add to library` feature implemented with the Favourites table.

- Genres and subjects were added to movies and books respectively to improve user experience by providing more information about media.
- Added "BODY clob not null" to the "Comment" table to store comments of any size.
- Recommendations were not implemented and thus their respective tables removed.
- Since users can speak with each other via discussions and replies in the clubs section of the website, the ability to reply to reviews was removed.
- Due to a lack of available data, Distributor and Creator were not deemed sufficiently different and distributor was removed.
- Due to a lack of available data as well as our feeling that having yet another media type would be overwhelming, the media type "Music" and associated tables were removed.
- Since the application is focused on media and discussion, the friends functionality was removed.
- The activity and popularity tables were removed as they were not an effective way of keeping track of club and media statistics and they were replaced with fields in the respective tables.

The new schema is as follows:

Underline: Primary Key

Bold: Foreign Key

postal_code(postal_code: varchar2(6), city: varchar2(255), province: varchar2(255))

Users(email: varchar(255), fName: varchar(255), dateCreated: timestamp, salt: varchar(32), hashed_password: varchar(64), **postal_code**: varchar2(255))

Film(id: number, title, varchar2(255), date: number, rating: float, genres: varchar2(255), duration: number)

Creator(id: number, name: varchar2(255), birthdate: DATE, type: number)

Book(id: number, title: varchar2(255), date: varchar2(255), rating: float, subject: varchar2(255), **author**: number, description CLOB)

Media(id: number, **book_id**: number, **film_id**: number)

Comment(id: number, date: timestamp(6), rating: number, **author_id**: varchar2(255), media_id: number, body CLOB)

favourites(**user_id**: varchar2(255), **media_id**: number)

Club(id: number, date: timestamp(6), name: varchar2(255), description: varchar(255), comment_count: number, discussion_count: number, member_count: number)

member_of(**user_id**: varchar2(255), **club_id**: number, role: number)

Discussion(id: number, date: timestamp(6), **club_id**: number, **author_id**: varchar2(255), content: varchar2(255))

Reply(id: number, date: timestamp(6), **discussion_id**: number, **author_id**: varchar2(255), content: varchar2(255))

Data Screenshots

Book

	id	title	date	rating	subject	AUTHOR	DESCRIPTION
1	13774631	Kai the ￼opihi gets the point	2006	<null>	<null>	6615943	Kai is an Hawaiian ￼opihi, a limpet, who learns to face, then wo...
2	13748634	Know diabetes	2002	<null>	<null>	6589859	Diabetes.
3	2702179	Phillis Wheatley	2003	<null>	<null>	394983	A brief description of the life of Phillis Wheatley, including he...
4	13778850	Who wants to be the next president?	2009	<null>	<null>	6620043	On politics and government regarding the presidential election 20...
5	13763590	Literature in times of violence	2009	<null>	<null>	6605466	Transcript of papers on the literature of the United States and t...
6	13764433	Shaif Z￼￼￼kir special	2008	<null>	<null>	6606253	Recipe of chef Z￼￼￼kir Quraish￼.
7	1767436	The Divyatattva of Raghunandana Bha￼￼￼￼￼￼c￼￼...	1981	<null>	<null>	207476	Digest of ordeals in Hindu law; with editorial introduction.
8	2710650	Mori's story	1998	<null>	<null>	396418	A boy discusses his autistic brother, including his home life, fo...
9	13815587	How to be an everyday philanthropist	2009	<null>	<null>	6686967	A great guide on how anyone can make a positive change by their d...
10	1193314	Seaborne trade	1920	<null>	<null>	120497	This book contains the history of the British merchant marine in ...
11	11947549	Human rights and non-discrimination in the 'Wa...	2008	<null>	<null>	5136993	Analyzes the human rights impacts of anti-terrorism laws and prac...
12	1776488	Vallabhbhai Patel and the Indian National Cong...	1997	<null>	<null>	210060	On the contribution of Vallabhbhai Patel to the freedom struggle ...
13	27135	The great buffalo race	1994	<null>	<null>	26243	A retelling of the Seneca legend in which the buffalo receives it...
14	2718199	A good fish dinner	1978	<null>	<null>	397804	A fox steals a fine dinner from a fish-seller, but a wolf, follow...
15	2721237	Widening the scope of cognitive therapy	1998	<null>	<null>	398294	xi, 355 p. ; 24 cm
16	2731417	Movie love in the Fifties	2001	<null>	<null>	400073	xi, 448 p. : 24 cm
17	2734713	Computers in action	1983	<null>	<null>	400747	Examines ways we use computers in commerce, industry, medicine, t...
18	2737274	The ambidextrist	2002	<null>	<null>	401230	With gripping, restrained prose, The Ambidextrist finds beauty am...
19	1798403	Marion Harland's complete cook book	1903	<null>	<null>	215891	A practical and exhaustive manual of cookery and housekeeping, co...
20	2651507	Song of the stranger	1999	<null>	<null>	386627	Twelve-year-old Karen leans more about her grandmother and her h...
21	2652372	Goldfish	1997	<null>	<null>	386747	A simple introduction to choosing and caring for goldfish.
22	13762193	International Conference on Toxic Exposure Rel...	2008	<null>	<null>	6604152	Proceedings and abstracts of the presented papers.
23	1801325	The king and the mangoes	1975	<null>	<null>	216168	The Prince of Benares learns a valuable lesson from the monkey ki...
24	1801478	America the beautiful	1987	<null>	<null>	216198	Introduces the geography, history, government, economy, industry,...
25	1801921	What makes a bird?	1997	<null>	<null>	216198	Discusses the habits, bodies, and different kinds of birds and th...
26	2681797	It￼￼￼ electric	1993	<null>	<null>	391537	Explains the scientific principles behind electricity, discussing...
27	1822255	The amazing life of Benjamin Franklin	2000	<null>	<null>	218441	This book is about one famous inventor. A biography of one of Ame...
28	2403990	Tuff stuff	1980	<null>	<null>	329907	Examines in simple text and illustrations a variety of situations...

Club

	id	date	name	description	COMMENT_COUNT	DISCUSSION_COUNT	MEMBER_COUNT
	30	2023-11-28 20:57:18.000000	Donkey Kong Club	For Donkey Kong	0	0	0
	41	2023-11-29 17:12:33.000000	Banana Club	￼￼￼	0	0	0

Comment

	id	date	rating	author_id	media_id	BODY
1	38	2023-11-27 09:21:13.000000	5	test@gmail.com	25	Wow, what a great book! 5 stars.



Creator

	🔗 id ↕	📄 name ↕	📅 birthdate ↕	📄 TYPE ↕
1	579518	Robyn Donald	<null>	0
2	592744	Arnie Katz	<null>	0
3	22083	Michael Jan Friedman	<null>	0
4	2627552	Tomie dePaola	<null>	0
5	410614	Ken Macrorie	<null>	0
6	227007	Brandon Marie Miller	<null>	0
7	228828	Jesse Feiler	<null>	0
8	246044	Kathy Kranking	<null>	0
9	25895	Edward Gorey	<null>	0
10	27599	Dorothy Hinshaw Patent	<null>	0
11	579258	Devaney, John.	<null>	0
12	596520	Jonathan David Owens	<null>	0
13	242335	Steven A. Riess	<null>	0
14	5167656	Pallavi Sharma	<null>	0
15	188093	Mathieu, Joseph.	<null>	0
16	24290	Pat Hutchins	<null>	0
17	446319	R. A. Montgomery	<null>	0
18	583614	Diana Cohen Conway	<null>	0
19	6538671	Belinda Wee	<null>	0
20	145315	Hans Peterson	<null>	0
21	216831	Howard Ozmon	<null>	0
22	390267	Peter F. Williams	<null>	0
23	244907	Robert Crowther	<null>	0
24	342733	W. Richard Plunkett	<null>	0







Discussion

	🔗 id ↕	📄 date ↕	🔗 club_id ↕	🔗 author_id ↕	📄 content ↕
1	25	2023-12-01 12:09:06.000000	30	test@gmail.com	Mario vs. Luigi

Favourites

	 user_id	 media_id
1	test@gmail.com	294

Films

	 id	 title	 date	 rating	 genres	 duration
1	101670	The House on Tombstone Hill	1989	<null>	Horror	95
2	101675	Dead Space	1991	<null>	Horror,Sci-Fi	72
3	101679	Dead to the World	1991	<null>	Action,Drama	102
4	101681	Deadly Currents	1991	<null>	Documentary	115
5	74142	The Anchorite	1976	<null>	Comedy,Drama	108
6	101693	Death on the Job	1991	<null>	Documentary	49
7	74146	Holy Year	1976	<null>	Comedy,Crime	85
8	101703	Delta Force Commando II: Priority Red One	1990	<null>	Action,Thriller	100
9	101706	The Savage Woman	1991	<null>	Drama	105
10	101725	Diary of a Hitman	1991	<null>	Crime,Drama	90
11	101728	The Real Me	1991	<null>	Action,Crime,Drama	87
12	101732	Dil Aashna Hai (...The Heart Knows)	1992	<null>	Drama,Romance	164
13	100588	Shaking the Tree	1990	<null>	Comedy,Drama	97
14	100594	The Sheltering Sky	1990	<null>	Adventure,Drama	138
15	74147	Face to Face	1976	<null>	Drama,Fantasy	114
16	100596	Sher Mountain Killings Mystery	1990	<null>	Mystery,Thriller	84
17	100598	Mortuary Blues	1990	<null>	Comedy,Horror	92
18	100599	A Punch to Revenge	1989	<null>	Action,Crime,Drama	92
19	74151	The Arch	1968	<null>	Drama	94
20	100606	A Show of Force	1990	<null>	Drama,Thriller	95
21	100608	The Shrimp on the Barbie	1990	<null>	Comedy	90
22	100610	The Revenge of Angel	1990	<null>	Action,Fantasy	91
23	100611	Sibling Rivalry	1990	<null>	Comedy	87
24	100615	Silence = Death	1990	<null>	Documentary	63
25	74152	Small Change	1976	<null>	Comedy,Drama	104

Media

	🔍 id ↕	🔍 book_id ↕	🔍 film_id ↕
1	1905	<null>	97534
2	1907	<null>	97537
3	1908	<null>	97538
4	1910	<null>	97542
5	1911	<null>	97543
6	1912	<null>	97549
7	1914	<null>	97555
8	1915	<null>	97561
9	1916	<null>	97562
10	1917	<null>	97567
11	1918	<null>	97569
12	1919	<null>	97570
13	1920	<null>	97571
14	1922	<null>	97574
15	1923	<null>	97576
16	1924	<null>	97579
17	1925	<null>	97585
18	1926	<null>	97586
19	1928	<null>	97593
20	1929	<null>	97600
21	1930	<null>	97603
22	1934	<null>	97619
23	1935	<null>	97622
24	1937	<null>	97624
25	1939	<null>	97627
26	1940	<null>	97630
27	1941	<null>	97635
28	1942	<null>	97636
29	1946	<null>	97650
30	1947	<null>	97655
31	1948	<null>	97658

Member

	🔑 user_id	🔑 club_id	📄 role
1	test@gmail.com	30	0

Postal Code

	🔑 postal_code	📄 city	📄 province
1	V6T1Z2	Vancouver	BC

Reply

	🔑 id	📄 date	🔑 discussion_id	🔑 author_id	📄 content
1	22	2023-12-01 12:09:16.000000	25	test@gmail.com	mario win

Users

🔑 email	📄 fName	📄 dateCreated	📄 salt	📄 hashed_password	📄 postal_code
test@gmail.com	Sam	2023-11-21 12:57:19.000000	0946ED12EDC51CC2D9776DA08A4149EE	0508A128B16716E02009214D5D75A9ADE169F597DFBFF518E558A75F04A6110	V6T1Z2

List of Queries

Authors.js 29-38

```
`SELECT C."id" AS author_id,
C."name" AS author_name,
COUNT(B."id") AS book_count
FROM "Creator" C
LEFT JOIN BOOK B
ON C."id" = B.AUTHOR
WHERE C."name" IS NOT NULL
GROUP BY C."id", C."name"
HAVING COUNT(b."id") >= ${filter}
ORDER BY book_count DESC`;
```

Authors.js 40-48

```
`SELECT C."id" AS author_id,
C."name" AS author_name,
COUNT(B."id") AS book_count
```

```
FROM "Creator" C
LEFT JOIN BOOK B
ON C."id" = B.AUTHOR
WHERE C."name" IS NOT NULL
GROUP BY C."id", C."name"
ORDER BY book_count DESC`
```

Clubs.js 20

```
`INSERT INTO "Club" ("name", "description") VALUES ('${title}', '${description}')`
```

Clubs.js 22

```
`SELECT "id" FROM "Club" c WHERE c."name" = '${title}' AND c."description" =
'${description}'`
```

Clubs.js 24

```
`INSERT INTO "member_of" m ("user_id", "club_id", "role") VALUES ('${userid}',
${clubid[0][0]}, 0)`
```

Clubs.js 38

```
INSERT INTO "Discussion" ("club_id", "author_id", "content") VALUES (${clubid},
'${userid}', '${title}')
```

Clubs.js 42

```
UPDATE "Club" c SET c.DISCUSSION_COUNT = c.DISCUSSION_COUNT + 1 WHERE c."id" =
${clubid}
```

Clubs.js 59

```
INSERT INTO "Reply" ("discussion_id", "author_id", "content") VALUES (${did},
'${userid}', '${content}')
```

Clubs.js 73

```
SELECT * FROM "Club"
```

Clubs.js 106

```
SELECT * FROM "member_of" WHERE "user_id" = '${req.user.user}' AND "club_id" =
${req.query.club_id}`)
```

Clubs.js 117

```
INSERT INTO "member_of" ("user_id", "club_id", "role") VALUES ('${req.user.user}',
${req.body.club_id}, 3)`
```

Clubs.js 119

```
UPDATE "Club" c SET c.MEMBER_COUNT = c.MEMBER_COUNT + 1 WHERE c."id" =
${req.body.club_id}
```

Clubs.js 131

```
DELETE FROM "member_of" mo WHERE "user_id" = '${req.user.user}' AND "club_id" =
${req.body.club_id}
```

Clubs.js 133-139

```
UPDATE "Club" c
SET c.MEMBER_COUNT =
CASE
WHEN c.MEMBER_COUNT > 0 THEN c.MEMBER_COUNT - 1
ELSE 0
END
WHERE c."id" = ${req.body.club_id}
```

Media.js 67

```
SELECT ${projection} FROM BOOK WHERE "title" LIKE '%${req.body.search}%' AND "date" >
${date}
```

Media.js 69

```
SELECT ${projection} FROM BOOK WHERE "title" LIKE '%${req.body.search}%'
```

Media.js 91

```
SELECT ${projection} FROM "Film" WHERE "title" LIKE '%${req.body.search}%' AND "date"
> ${date}
```

Media.js 93

```
SELECT ${projection} FROM "Film" WHERE "title" LIKE '%${req.body.search}%'
```

Media.js 129

```
SELECT \"id\" FROM \"Media\" WHERE \"book_id\" = \" + media_id
```

Media.js 131

```
SELECT \"id\" FROM \"Media\" WHERE \"film_id\" = \" + media_id
```

Media.js 136

```
SELECT * FROM \"Comment\" WHERE \"media_id\" IN (\" + media_query + ')
```

Media.js 189

```
SELECT "id" FROM "Media" WHERE \"${media_table}\" = ${id}
```

Media.js 193

```
INSERT INTO "Comment" ("rating", "author_id", "media_id", BODY) VALUES (${rating},  
'${req.user.user}', ${media_id}, '${body}')
```

Media.js 217

```
SELECT "id" FROM "Media" WHERE "${media_table}" = ${id}
```

Media.js 221

```
SELECT * FROM "favourites" WHERE ("user_id" = '${req.user.user}' AND "media_id" =  
${media_id})
```

Media.js 238

```
SELECT "id" FROM "Media" WHERE \"${media_table}\" = ${id}
```

Media.js 244

```
SELECT * FROM "favourites" WHERE ("user_id" = '${req.user.user}' AND "media_id" =  
${media_id})
```

Media.js 246

```
INSERT INTO "favourites" ("user_id", "media_id") VALUES ('${req.user.user}',  
'${media_id}')
```

Media.js 270

```
SELECT "id" FROM "Media" WHERE \"${media_table}\" = ${id}
```

Media.js 276

```
DELETE FROM "favourites" WHERE ("user_id" = '${req.user.user}' AND "media_id" =  
'${media_id}')
```

authourRoutes.js 26

```
SELECT * FROM "Creator" WHERE "id" = ${id}
```

authourRoutes.js 27

```
SELECT COUNT(*) FROM BOOK WHERE AUTHOR = ${id}
```

clubRoutes.js 15

```
SELECT * FROM "Club
```

clubRoutes.js 17

```
SELECT COUNT(*) FROM USERS u WHERE NOT EXISTS ((SELECT c."id" FROM "Club" c) MINUS
(SELECT mo."club_id" FROM "member_of" mo WHERE mo."user_id" = u."email"))
```

clubRoutes.js 19

```
SELECT COUNT(*) as club_count FROM "Club" WHERE member_count > (SELECT
AVG(member_count) FROM "Club") GROUP BY member_count`
```

clubRoutes.js 35

```
SELECT d."content" FROM "Discussion" d WHERE d."id" = ${did}
```

clubRoutes.js 46

```
SELECT "id", "date", "name", "description", COMMENT_COUNT, DISCUSSION_COUNT,
MEMBER_COUNT FROM "Club" WHERE "id" = ${id}`
```

clubRoutes.js 47

```
SELECT * FROM "Discussion" d WHERE d."club_id" = ${id} ORDER BY d."date" DESC
```

clubRoutes.js 59

```
SELECT d."content" FROM "Discussion" d WHERE d."id" = ${did}
```

clubRoutes.js 61

```
SELECT * FROM "Reply" r WHERE r."discussion_id" = ${did} ORDER BY r."date" ASC
```

mediaRoutes.js 24

```
SELECT * FROM \"BOOK\" ORDER BY dbms_random.value FETCH FIRST 20 ROWS ONLY
```

mediaRoutes.js 25

```
SELECT * FROM \"Film\" ORDER BY dbms_random.value FETCH FIRST 20 ROWS ONLY
```

mediaRoutes.js 45

```
SELECT * FROM BOOK WHERE \"id\" = " + id
```

mediaRoutes.js 56

```
SELECT * FROM \"Film\" WHERE \"id\" = " + id
```

userService.js 12

```
SELECT * FROM "Postal_Code" WHERE "postal_code" = :postalCode
```

userService.js 17-18

```
INSERT INTO "Postal_Code" ("postal_code", "city", "province")
VALUES (:postal_code, :city, :province)
```

userService.js 25-26

```
INSERT INTO Users ("email", "fName", "dateCreated", "salt", "hashed_password",
"postal_code")
VALUES (:email, :name, current_date, :salt, :hashed_password, :postalCode)
```

userService.js 42

```
SELECT * FROM Users WHERE "email" = :email
```

userService.js 55

```
`SELECT *
from BOOK
where BOOK."id" in (select m."book_id"
from "favourites" f, "Media" m
where f."user_id" = '${user}')
and f."media_id" = m."id")
and BOOK."date" > ${date_filter}`
```

userService.js 68

```
`SELECT *
FROM "Film"
WHERE "Film"."id" in (SELECT m."film_id"
FROM "favourites" f, "Media" m
WHERE f."user_id" = '${user}')
and f."media_id" = m."id")
and "Film"."date" > ${date_filter}`
```

userService.js 82

```
UPDATE USERS SET "fName" = '${newName}' where "email" = '${user}'
```

userService.js 97

```
DELETE FROM Users WHERE "email" = :email'
```

userService.js 117

```
UPDATE USERS SET "hashed_password" = :hashed_password, "salt" = :salt WHERE "email" =
:email
```

Query Screenshots

Aggregation with group by

Authors

Filter by books written

ID	Name	Books Written
223207	David M. McPhail	3
217841	Althea.	3
216198	Lynn M. Stone	3
150237	Marguerita Rudolph	2
219322	Jill C. Wheeler	2
582454	Jay H. Smith	2
219286	Taylor, Theodore	2
231690	Jean Fritz	2
326916	Bob Italia	2
25054	Tamara L. Britton	2
236981	Pamela Espeland	2
43360	Steve Parker	2
531651	Rhoda McFarland	2
329907	Joy Berry	2
220769	Hawkins, Colin.	2
461239	Jeanne Bendick	2
5245514	James Bland	1
1239026	Phoebe Hichens	1
243430	David Bomford	1
409289	Arthur Evans	1
204777	R. J. Ranjit Daniels	1

Aggregation with Having

Authors

Filter by books written

ID	Name	Books Written
223207	David M. McPhail	3
217841	Althea.	3
216198	Lynn M. Stone	3
326916	Bob Italia	2
25054	Tamara L. Britton	2
461239	Jeanne Bendick	2
150237	Marguerita Rudolph	2
219322	Jill C. Wheeler	2
219286	Taylor, Theodore	2
220769	Hawkins, Colin.	2
236981	Pamela Espeland	2
329907	Joy Berry	2
531651	Rhoda McFarland	2
231690	Jean Fritz	2
43360	Steve Parker	2
582454	Jay H. Smith	2

Delete

ID 2734713

Computers in action

1983

Examines ways we use computers in commerce, industry, medicine, transportation, police work, graphics, war, and space.

Remove from library

Discussion

Write your thoughts here.



Submit

There aren't any comments here, yet...

Before a delete takes place, the media is still in the user's library:

My Library

Filter by Date:

Books

Title	Date
Computers in action	1983
How do you get a horse out of the bathtub?	1983

Films

Title	Date	Genres	Duration
-------	------	--------	----------

ID 2734713

Computers in action

1983

Examines ways we use computers in commerce, industry, medicine, transportation, police work, graphics, war, and space.

Add to library

Discussion

Write your thoughts here.



Submit

There aren't any comments here, yet...

After a delete takes place, the media is no longer in their library

Division

Clubs

Create a New club

There are currently no popular clubs and 1 super members!

[Donkey Kong Club](#)

Tue Nov 28 2023 20:57:18 GMT-0800 (Pacific Standard Time)

For Donkey Kong

[Banana Club](#)

Wed Nov 29 2023 17:12:33 GMT-0800 (Pacific Standard Time)



Used to calculate the number of super members (members who are a part of *all* clubs)

Clubs

Create a New club

There are currently 1 popular clubs!

[Donkey Kong Club](#)

Tue Nov 28 2023 20:57:18 GMT-0800 (Pacific Standard Time)

For Donkey Kong

[Banana Club](#)

Wed Nov 29 2023 17:12:33 GMT-0800 (Pacific Standard Time)



If a user leaves a club they are no longer counted as a super member.

Insert

ID 1956698

How do you get a horse out of the bathtub?

1983

Humorous questions and answers in eight categories parody suggestions offered by advice columnists.

Add to library

Discussion

Write your thoughts here.



Submit

There aren't any comments here, yet...

Before the media is inserted to the user's library

ID 1956698

How do you get a horse out of the bathtub?

1983

Humorous questions and answers in eight categories parody suggestions offered by advice columnists.

Remove from library

Discussion

Write your thoughts here.



Submit

There aren't any comments here, yet...

Insert: After the media is inserted into the library

My Library

Filter by Date:

Books

Title	Date
Computers in action	1983
How do you get a horse out of the bathtub?	1983

Films

Title	Date	Genres	Duration
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The media then present in the users library.

Join

My Library

Filter by Date:

Books

Title	Date
The Church of Ireland in Victorian Dublin	2005
Stumbling toward enlightenment	1997
A brown cow	1989

Films

Title	Date	Genres	Duration
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The favourites and media tables are joined to show a user what media is in their library.

ID 2800323

The Church of Ireland in Victorian Dublin

2005

208 pages : 25 cm



Discussion

Write your thoughts here.

There aren't any comments here, yet...

A user can choose to delete this media, as shown above

My Library

Filter by Date:

Books

Title	Date
Stumbling toward enlightenment	1997
A brown cow	1989

Films

Title	Date	Genres	Duration
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After which the join accurately reflects that the media is now missing from their library.

Projection

A user has the option to filter by title, date, or title and date when searching for media. This dictates what is selected in the SQL query. Examples are shown below:

Filter by date

Choose Items: ☐ Title ☒ Date

Type	ID	date
Book	121200	1993
Book	463250	1989
Film	99724	1991
Film	98655	1989
Film	74588	1976
Film	74589	1977
Film	74714	1975
Film	75225	1976
Film	77632	1978
Film	77634	1980
Film	93244	1987
Film	93116	1987
Film	92155	1986

Great



Filter by date

Choose Items: ☒ Title ☒ Date

Type	ID	title	date
Book	121200	Flying with the Eagle, Racing the Great Bear	1993
Book	463250	Nate the Great Goes Undercover (Nate the Great)	1989
Film	99724	Great, My Parents Are Divorcing!	1991
Film	98655	The Wilderness Idea: John Muir, Gifford Pinchot, and the First Great Battle for Wilderness	1989
Film	74588	The Great Scout & Cathouse Thursday	1976
Film	74589	The Great Smokey Roadblock	1977
Film	74714	Jim, the World's Greatest	1975
Film	75225	How Czar Peter the Great Married Off His Moor	1976
Film	77632	The Great Brain	1978
Film	77634	The Great Skycopter Rescue	1980
Film	93244	Gramps Is a Great Guy!	1987

Great



Filter by date

Choose Items: ☒ Title ☐ Date

Type	ID	title
Book	121200	Flying with the Eagle, Racing the Great Bear
Book	463250	Nate the Great Goes Undercover (Nate the Great)
Film	99724	Great, My Parents Are Divorcing!
Film	98655	The Wilderness Idea: John Muir, Gifford Pinchot, and the First Great Battle for Wilderness
Film	74588	The Great Scout & Cathouse Thursday
Film	74589	The Great Smokey Roadblock
Film	74714	Jim, the World's Greatest
Film	75225	How Czar Peter the Great Married Off His Moor
Film	77632	The Great Brain
Film	77634	The Great Skycopter Rescue
Film	93244	Gramps Is a Great Guy!
Film	93116	The Great Land of Small
Film	92155	The Great Movie Robbery
Film	95236	The Greatest Lover

Selection

Selection allows the user to filter by a certain date, only showing media that was produced after that date. See below for before and after.

Filter by date

Choose Items: ☒ Title ☒ Date

Type	ID	title	date
Book	1930565	Star of the circus	1997
Film	74207	The Bingo Long Traveling All-Stars & Motor Kings	1976
Film	101825	Written in the Stars	1991
Film	75881	Battle of the Stars	1978
Film	75906	Follow the Star	1978
Film	96921	Beyond the Stars	1989
Film	75265	A Star Is Born	1976
Film	94183	Subway to the Stars	1987
Film	99002	Stars and Roses	1989
Film	98217	The Romancing Star 3	1989
Film	96164	Starlight: A Musical Movie	1988
Film	96166	Stars and Bars	1988
Film	96167	Stars in Broad Daylight	1988
Film	91238	Hyper Sapien: People from Another Star	1986
Film	91319	How to Become a Star	1987
Film	91447	Lucky Stars Go Places	1986
Film	91519	Miko: From the Gutter to the Stars	1986
Film	94031	Starlight Hotel	1987
Film	93056	The Romancing Star	1987
Film	95206	Gemini: The Twin Stars	1988
Film	95404	The Romancing Star 2	1988
Film	95405	Starry is the Night	1988
Film	89297	Hour of the Star	1985
Film	89316	I Can't Get Started	1985
Film	86578	White Star	1983
Film	76760	Starship Invasions	1977
Film	90840	The Christmas Star	1986

Star



Filter by date

1990

Choose Items: ☒ Title ☒ Date

Type	ID	title	date
Book	1930565	Star of the circus	1997
Film	101825	Written in the Stars	1991

Update

Subscribing or unsubscribing from a club updates that club's member count. Likewise, adding a discussion does the same.

Donkey Kong Club

0 members and 0 discussions.

For Donkey Kong

Subscribe

Discussions

Create a new Discussion

[Mario vs. Luigi](#)

test@gmail.com

Posted Fri Dec 01 2023 12:09:06 GMT-0800 (Pacific Standard Time)

Before subscribing, there are 0 members

Donkey Kong Club

1 members and 0 discussions.

For Donkey Kong

Unsubscribe

Discussions

Create a new Discussion

[Mario vs. Luigi](#)

test@gmail.com

Posted Fri Dec 01 2023 12:09:06 GMT-0800 (Pacific Standard Time)

After subscribing there is one member