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 j9d4c 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 ddlv4.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

	Ģid : ∏ title	□ date ÷	☐ rating :	■ subject ÷	☐ AUTHOR	□ DESCRIPTION □ □ □ DESCRIPTION □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
1	13774631 Kai the ��opihi gets the point	2006			6615943	Kai is an Hawaiian ♦♦opihi, a limpet, who learns to face, then wo…
2	13748634 Know diabetes	2002			6589859	Diabetes.
3	2702179 Phillis Wheatley	2003			394983	A brief description of the life of Phillis Wheatley, including he
4	13778850 Who wants to be the next president?	2009			6620043	On politics and government regarding the presidential election 20
5	13763590 Literature in times of violence	2009			6605466	Transcript of papers on the literature of the United States and t
6	13764433 Shaif Z♦♦♦♦♦kir special	2008			6606253	Recipe of chef Z♦♦♦♦kir Quraish♦♦.
7	1767436 The Divyatattva of Raghunandana Bha♦♦♦♦♦♦♦♦≎c♦♦	1981			207476	Digest of ordeals in Hindu law; with editorial introduction.
8	2710650 Mori's story	1998			396418	A boy discusses his autistic brother, including his home life, fo
9	13815587 How to be an everyday philanthropist				6686967	A great guide on how anyone can make a positive change by their d
10	1193314 Seaborne trade				120497	This book contains the history of the British merchant marine in
11	11947549 Human rights and non-discrimination in the 'Wa	2008			5136993	Analyzes the human rights impacts of anti-terrorism laws and prac
12	1776488 Vallabhbhai Patel and the Indian National Cong	1997			210060	On the contribution of Vallabhbhai Patel to the freedom struggle
13	27135 The great buffalo race	1994			26243	A retelling of the Seneca legend in which the buffalo receives it
1.4	2718199 A good fish dinner	1978			397804	A fox steals a fine dinner from a fish-seller, but a wolf, follow
15	2721237 Widening the scope of cognitive therapy	1998			398294	xi, 355 p. ; 24 cm
16	2731417 Movie love in the Fifties	2001			400073	xi, 448 p. : 24 cm
17	2734713 Computers in action	1983			400747	Examines ways we use computers in commerce, industry, medicine, t
18	2737274 The ambidextrist	2002			401230	With gripping, restrained prose, The Ambidextrist finds beauty am
19	1798403 Marion Harland's complete cook book	1903			215891	A practical and exhaustive manual of cookery and housekeeping, co
20	2651507 Song of the stranger	1999			386627	Twelve-year-old Karen leans more about her grandmother and her he…
21	2652372 Goldfish	1997			386747	A simple introduction to choosing and caring for goldfish.
22	13762193 International Conference on Toxic Exposure Rel	2008			6604152	Proceedings and abstracts of the presented papers.
23	1801325 The king and the mangoes				216168	The Prince of Benares learns a valuable lesson from the monkey ki
24	1801478 America the beautiful	1987			216198	Introduces the geography, history, government, economy, industry,
25	1801921 What makes a bird?	1997			216198	Discusses the habits, bodies, and different kinds of birds and th
26	2681797 It♦♦♦s electric	1993			391537	Explains the scientific principles behind electricity, discussing
27	1822255 The amazing life of Benjamin Franklin	2000			218441	This book is about one famous inventor. A biography of one of Ame
28	2403990 Tuff stuff	1980	<null></null>	<null></null>	329907	Examines in simple text and illustrations a variety of situations

Club

ı	[id ÷ □ date	÷ "□ name	description descr	COMMENT_COUNT ÷	☐ DISCUSSION_COUNT :	
	30 2023-11-28 20:57:18.000000	Donkey Kong Club	For Donkey Kong			0
	2 41 2023-11-29 17:12:33.000000	Banana Club	***			0

Comment

	ાૄિ id ≎	□ date	☐ rating ÷	📭 author_id 🗼	∏og media_id ÷	₽ BODY	¢
1	38	2023-11-27 09:21:13.000000	5	test@gmail.com	25	Wow, what a great book! 5 stars.	

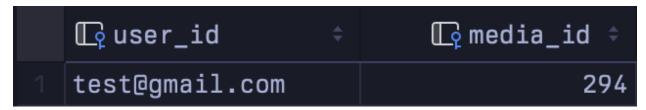
Creator

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

Discussion

	<u>∏</u> id ≑	□ date ÷	[club_id ÷	📭 author_id 💠	□ content	\$
1	25	2023-12-01 12:09:06.000000	30	test@gmail.com	Mario vs. Luigi	

Favourites



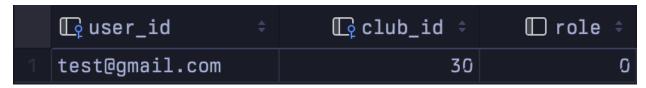
Films

	📮 id 🗧 🗍 title	e ≑ □ rating ÷	☐ genres ÷	☐ duration ‡
1	101670 The House on Tombstone Hill	989 <null:< td=""><td>Horror</td><td>95</td></null:<>	Horror	95
2	101675 Dead Space	991 <null< td=""><td>Horror,Sci-Fi</td><td>72</td></null<>	Horror,Sci-Fi	72
3	101679 Dead to the World	991 <null:< td=""><td>Action,Drama</td><td>102</td></null:<>	Action,Drama	102
4	101681 Deadly Currents	991 <null:< td=""><td>Documentary</td><td>115</td></null:<>	Documentary	115
5	74142 The Anchorite	976 <null:< td=""><td>Comedy,Drama</td><td>108</td></null:<>	Comedy,Drama	108
6	101693 Death on the Job	991 <null:< td=""><td>Documentary</td><td>49</td></null:<>	Documentary	49
7	74146 Holy Year	976 <null:< td=""><td>Comedy,Crime</td><td>85</td></null:<>	Comedy,Crime	85
8	101703 Delta Force Commando II: Priority Red One	990 <null:< td=""><td>Action,Thriller</td><td>100</td></null:<>	Action,Thriller	100
9	101706 The Savage Woman	991 <null< td=""><td>Drama</td><td>105</td></null<>	Drama	105
10	101725 Diary of a Hitman	991 <null:< td=""><td>Crime,Drama</td><td>90</td></null:<>	Crime,Drama	90
11	101728 The Real Me	991 <null:< td=""><td>Action,Crime,Drama</td><td>87</td></null:<>	Action,Crime,Drama	87
12	101732 Dil Aashna Hai (The Heart Knows)	992 <null:< td=""><td>Drama,Romance</td><td>164</td></null:<>	Drama,Romance	164
13	100588 Shaking the Tree	990 <null:< td=""><td>Comedy,Drama</td><td>97</td></null:<>	Comedy,Drama	97
14	100594 The Sheltering Sky	990 <null:< td=""><td>Adventure,Drama</td><td>138</td></null:<>	Adventure,Drama	138
15	74147 Face to Face	976 <null:< td=""><td>Drama,Fantasy</td><td>114</td></null:<>	Drama,Fantasy	114
16	100596 Sher Mountain Killings Mystery	990 <null:< td=""><td>Mystery,Thriller</td><td>84</td></null:<>	Mystery,Thriller	84
17	100598 Mortuary Blues	990 <null:< td=""><td>Comedy, Horror</td><td>92</td></null:<>	Comedy, Horror	92
18	100599 A Punch to Revenge	989 <null:< td=""><td>Action,Crime,Drama</td><td>92</td></null:<>	Action,Crime,Drama	92
19	74151 The Arch	968 <null:< td=""><td>Drama</td><td>94</td></null:<>	Drama	94
20	100606 A Show of Force	990 <null:< td=""><td>Drama,Thriller</td><td>95</td></null:<>	Drama,Thriller	95
21	100608 The Shrimp on the Barbie	990 <null:< td=""><td>Comedy</td><td>90</td></null:<>	Comedy	90
22	100610 The Revenge of Angel	990 <null:< td=""><td>Action,Fantasy</td><td>91</td></null:<>	Action,Fantasy	91
23	100611 Sibling Rivalry	990 <null< td=""><td>Comedy</td><td>87</td></null<>	Comedy	87
24	100615 Silence = Death	990 <null:< td=""><td>Documentary</td><td>63</td></null:<>	Documentary	63
25	74152 Small Change	976 <null:< td=""><td>Comedy,Drama</td><td>104</td></null:<>	Comedy,Drama	104

Media

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

Member



Postal Code



Reply



Users



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 =
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
```

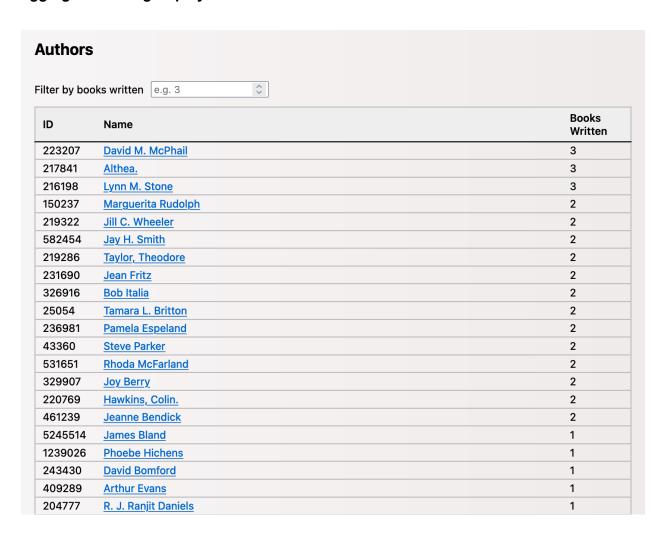
```
SELECT "id" FROM "Media" WHERE \"${media_table}\" = ${id}
Media.js 193
INSERT INTO "Comment" ("rating", "author_id", "media_id", BODY) VALUES (${rating},
'${req.user.user}', ${media id}, '${body}')
Media.js 217
SELECT "id" FROM "Media" WHERE "${media_table}" = ${id}
Media.js 221
SELECT * FROM "favourites" WHERE ("user id" = '${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

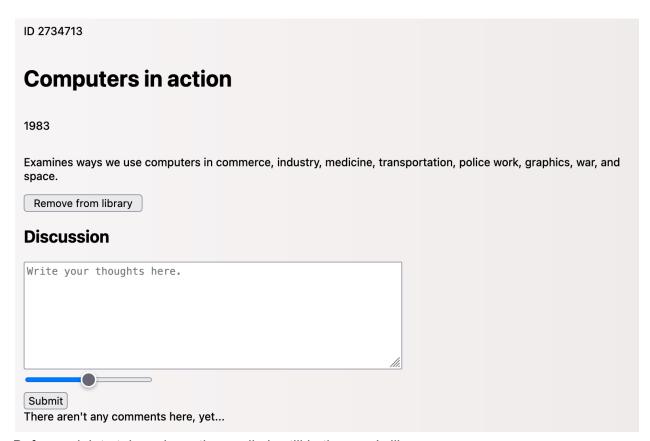
Aggregation with group by



Aggregation with Having

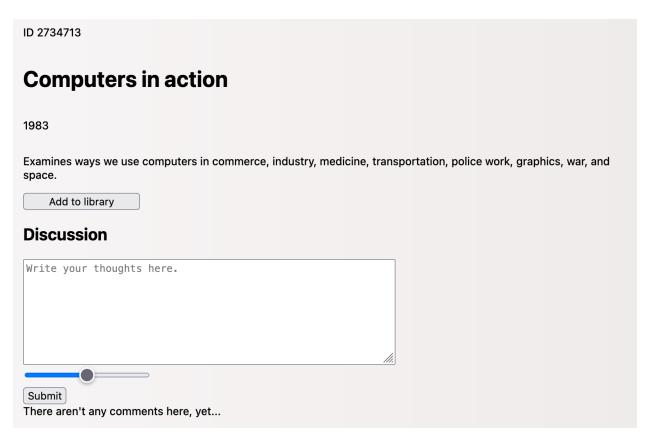
Authors 0 Filter by books written 2 ID **Books Written** Name 223207 David M. McPhail 3 217841 3 Althea. 216198 3 Lynn M. Stone 326916 **Bob Italia** 2 25054 2 Tamara L. Britton 461239 Jeanne Bendick 2 150237 Marguerita Rudolph 2 219322 Jill C. Wheeler 2 219286 2 Taylor, Theodore 220769 2 Hawkins, Colin. 236981 Pamela Espeland 2 329907 2 Joy Berry 531651 Rhoda McFarland 2 231690 Jean Fritz 2 43360 Steve Parker 2 582454 Jay H. Smith 2

Delete



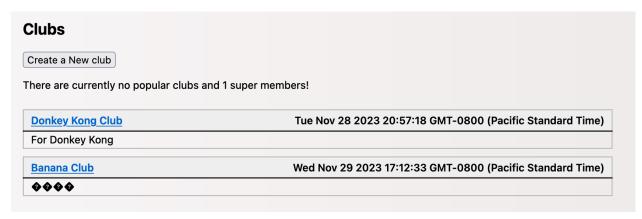
Before a delete takes place, the media is still in the user's library:



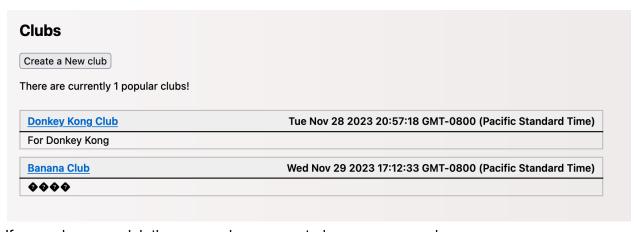


After a delete takes place, the media is no longer in their library

Division



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

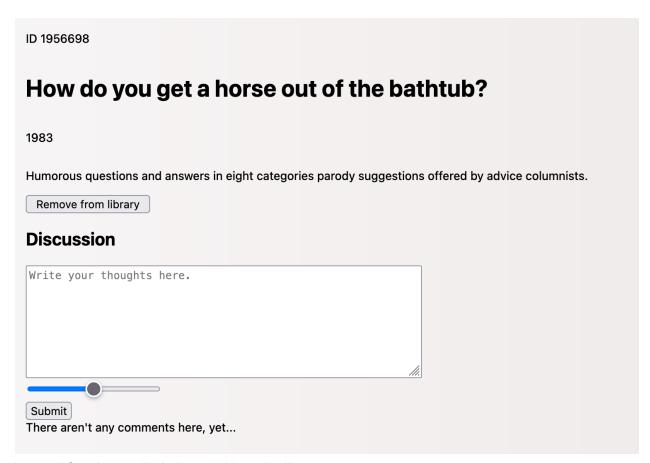


If a user leaves a club they are no longer counted as a super member.

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

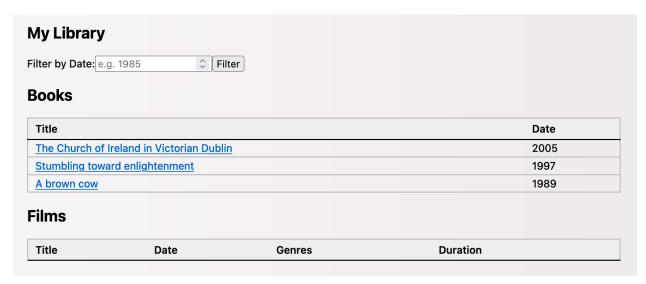


Insert: After the media is inserted into the library

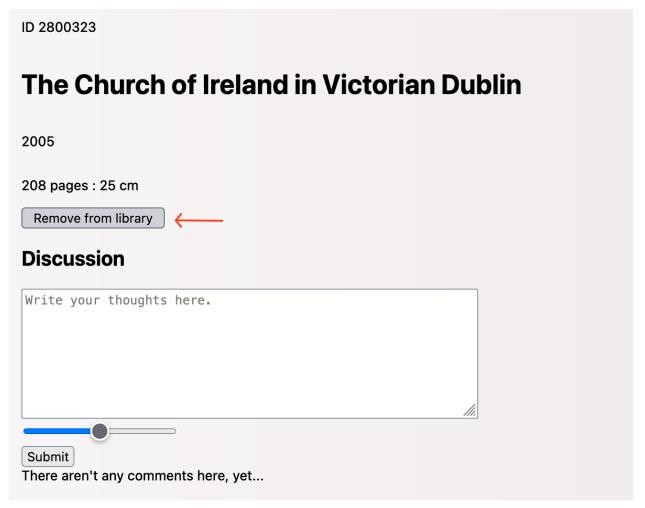


The media then present in the users library.

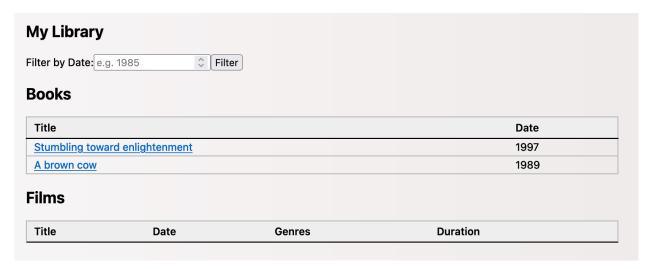
Join



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



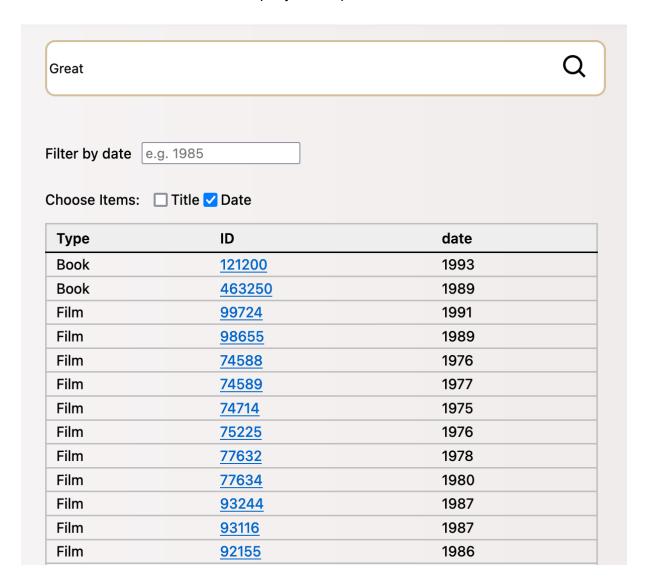
A user can choose to delete this media, as shown above



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:



Great

Filter by date e.g. 1985

Choose Items: ✓ Title ✓ Date

Туре	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	<u>74588</u>	The Great Scout & Cathouse Thursday	1976
Film	74589	The Great Smokey Roadblock	1977
Film	<u>74714</u>	Jim, the World's Greatest	1975
Film	<u>75225</u>	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 e.g. 1985

Choose Items: ✓ Title ☐ Date

Туре	ID	title			
Book	<u>121200</u>	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	<u>98655</u>	The Wilderness Idea: John Muir, Gifford Pinchot, and the First Great Battle for Wilderness			
Film	<u>74588</u>	The Great Scout & Cathouse Thursday			
Film	74589	The Great Smokey Roadblock			
Film	<u>74714</u>	Jim, the World's Greatest			
Film	<u>75225</u>	How Czar Peter the Great Married Off His Moor			
Film	<u>77632</u>	The Great Brain			
Film	<u>77634</u>	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.



Star

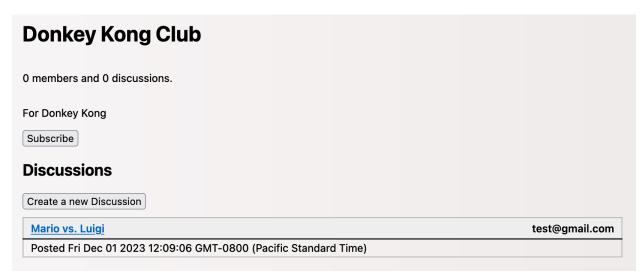
Filter by date 1990

Choose Items: ✓ Title ✓ Date

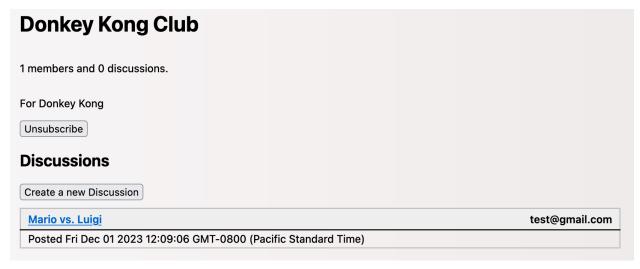
Туре	ID	title	date
Book	<u>1930565</u>	Star of the circus	1997
Film	<u>101825</u>	Written in the Stars	1991

Update

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



Before subscribing, there are 0 members



After subscribing there is one member