

Introduction

The primary objective of our database project is to design a robust and efficient physical schema for a library management system that supports both student and public users. This schema will underpin a system that lets users use the database for searching, reserving, and checking out physical and digital media—including books, e-books, PDFs, movies, and magazines—through a centralized database.

The schema enforces clear relationships between users and media items through foreign keys, while indexing is employed on frequently queried fields such as media titles, user IDs, and active tickets to enhance query performance. The digital ticket system is physically represented through a ticket table, with each ticket linked to its corresponding media and user record. Tickets remain active until the associated item is returned, and each renewal generates a new entry, preserving the transaction history.

This schema focuses strictly on the internal structure needed to support media access for users and manipulations, creating, and deleting for staff and admin.

Platform

We chose MySQL 8 for our library database due to its strong balance of performance, simplicity, and reliability for relational data. Its syntax is very similar to what we have been discussing in class which made development and debugging easier, and MySQL's native support for foreign key constraints and transactions made it ideal for managing structured data like books, media, and user interactions. While there are more advanced options for large-scale or highly concurrent systems, MySQL 8 provides all the necessary features for a small-to-medium application with minimal overhead.

Schema

```
/*
 * The user table uses a user_id to uniquely identify each user. Each new user
 * will have a user_id incremented by one from the previous newest user.
 */
CREATE TABLE User (
    user_id INTEGER PRIMARY KEY,
    username VARCHAR(20) NOT NULL UNIQUE,
    role VARCHAR(10),
    CONSTRAINT chk_role CHECK (role IN ('Admin', 'Member'))
);

/* pays_for keeps track of the amount the user paid for the checkout.
 *
 * Although pays_for is extremely reliant on checks_out and could be a view since this
 * table holds transactions of money we thought it would be best to keep this as a permanent
 * table so that if a record from checks_out got deleted and or we can only keep track of so
```

* so many checkouts that even though the check out data is gone we would still have proof of
* payment.
*/

```
CREATE TABLE pays_for (  
    checkout_id INTEGER PRIMARY KEY REFERENCES checks_out(checkout_id),  
    user_id INTEGER NOT NULL REFERENCES User,  
    amount INTEGER NOT NULL CHECK (amount >= 0)  
);
```

/*
* checks_out is the most used table that is manipulated when an action/update is
* needed. It contains information regarding a user's checkout.
*/

```
CREATE TABLE checks_out (  
    checkout_id INTEGER PRIMARY KEY,  
    user_id INTEGER NOT NULL REFERENCES User,  
    media_id varchar(10) NOT NULL REFERENCES Media,  
    checkout_date TIMESTAMP NOT NULL,  
    due_date TIMESTAMP NOT NULL DEFAULT (CURRENT_TIMESTAMP + INTERVAL 14  
DAY),  
    return_date TIMESTAMP NULL DEFAULT NULL,  
    CONSTRAINT valid_due_date CHECK (due_date >= checkout_date),  
    CONSTRAINT valid_return_date CHECK (return_date >= checkout_date)  
);
```

/*
* downloads keeps track of the information from when a user downloaded digital media.
*
* The need for this to be a separate relation from checks_out is to avoid the fact that it is
* never returned so the return date would have to be null, which would make finding media
* that hasn't been returned much harder.
*/

```
CREATE TABLE downloads (  
    download_id INTEGER PRIMARY KEY,  
    user_id INTEGER NOT NULL REFERENCES User,  
    media_id VARCHAR(10) NOT NULL REFERENCES Media,  
    download_date TIMESTAMP NOT NULL);
```

/* reserves keeps track of the information from when a user reserved a piece of media.
*

* This much like downloads was made to be its own table to avoid a tuple that was comprised
* of mainly null values until the reservation can be filled.
*/

```
CREATE TABLE reserves (  
    reserve_id INTEGER PRIMARY KEY,  
    user_id INTEGER NOT NULL REFERENCES User,  
    media_id VARCHAR(10) NOT NULL REFERENCES Media,  
    reserve_date TIMESTAMP NOT NULL,  
    return_date TIMESTAMP NOT NULL,  
    CONSTRAINT valid_return_date CHECK (return_date >= reserve_date)
```

```

    reserves_id INTEGER PRIMARY KEY,
    user_id INTEGER NOT NULL REFERENCES User,
    media_id VARCHAR(10) NOT NULL REFERENCES Media,
    reserve_start TIMESTAMP NOT NULL,
    reserve_end TIMESTAMP NULL DEFAULT NULL,
    CONSTRAINT valid_reserve_date CHECK (reserve_end >= reserve_start)
);

```

```

/*
 * Each media type has a different media_id prefix to help identify the type:
 * Book = BK
 * Movie = MV
 * DigitalMedia = DM
 * Magazine = MG
 * Otherwise, each Media type contains relevant information for the user-end
 * regarding the piece of media (title, author/publisher, date published etc).
 * Each piece of media is deleted from other tables when it is removed from the library's
 * catalogue.
 *
 * The reason for Media being its own table is to centralize and simplify the interactions that are
 * between the user and the Media. For example, since we have one media table with all of the
 * media_id values we do not have to have relations and/or foreign keys from checks_out to
 * each type of media's own table.
 *
 * Each instance of a media in every type has a is_reserved Boolean value, this is simply for the
 * ease of checking if a certain media is reserved meaning we cannot check it out to a different
 * member.
 */
CREATE TABLE Media (
    media_id VARCHAR(10) PRIMARY KEY,
    date_published DATE
);

```

```

CREATE TABLE Book (
    media_id varchar(10) PRIMARY KEY REFERENCES Media(media_id) ON DELETE
    CASCADE,
    title VARCHAR(255) NOT NULL,
    author VARCHAR(255),
    genre VARCHAR(25),
    is_reserved BOOLEAN DEFAULT FALSE
);

```

```

CREATE TABLE Movie (

```

```

media_id VARCHAR(10) PRIMARY KEY REFERENCES Media(media_id) ON DELETE
CASCADE,
title VARCHAR(255) NOT NULL,
genre VARCHAR(25),
director VARCHAR(255),
publisher VARCHAR(255),
is_reserved BOOLEAN DEFAULT FALSE
);

```

```

CREATE TABLE Magazine (
media_id varchar(10) PRIMARY KEY REFERENCES Media(media_id) ON DELETE
CASCADE,
volume_no INTEGER,
issue_no INTEGER,
title VARCHAR(255) NOT NULL,
genre VARCHAR(25),
publication VARCHAR(255),
is_reserved BOOLEAN DEFAULT FALSE
);

```

```

CREATE TABLE DigitalMedia (
media_id varchar(10) PRIMARY KEY REFERENCES Media(media_id) ON DELETE
CASCADE,
title VARCHAR(255) NOT NULL,
genre VARCHAR(25),
publisher VARCHAR(255),
file_type VARCHAR(50),
CONSTRAINT chk_file_type CHECK (file_type IN ('epub', 'mp4', 'mp3', 'pdf'))
);

```

Table contents

User

user_id	username	role
11	user_11	Admin
12	user_12	Member

13	user_13	Admin
14	user_14	Member
15	user_15	Member
16	user_16	Member
17	user_17	Member
18	user_18	Member
19	user_19	Member
20	user_20	Member
21	user_21	Member
22	user_22	Member
23	user_23	Admin
24	user_24	Member
25	user_25	Admin
26	user_26	Admin
27	user_27	Admin

28	user_28	Member
29	user_29	Admin
30	user_30	Admin
31	user_31	Admin
32	user_32	Member
33	user_33	Admin
34	user_34	Member
35	user_35	Member
36	user_36	Member
37	user_37	Admin
38	user_38	Admin
39	user_39	Admin
40	user_40	Member
41	user_41	Admin
42	user_42	Admin

43	user_43	Member
44	user_44	Admin
45	user_45	Admin
46	user_46	Member
47	user_47	Admin
48	user_48	Admin
49	user_49	Admin
50	user_50	Member
51	user_51	Admin
52	user_52	Admin
53	user_53	Admin
54	user_54	Member
55	user_55	Member
56	user_56	Member
57	user_57	Member

58	user_58	Admin
59	user_59	Member
60	user_60	Member

pays_for

checkout_id	user_id	amount
50	46	2
54	35	5
70	27	3
75	32	6
90	27	3
94	28	3
95	36	5

checks_out

checkout_id	user_id	media_id	checkout_date	due_date	return_date

11	54	MG000000 09	2023-04-30 20:15:51	2023-05-14 20:15:51	2023-05-06 20:15:51
12	48	MG000000 05	2025-02-01 07:49:07	2025-02-15 07:49:07	null
14	38	BK000000 12	2024-01-16 07:38:01	2024-01-30 07:38:01	2024-01-20 07:38:01
16	13	MG000000 04	2024-06-30 23:17:42	2024-07-14 23:17:42	null
18	51	MG000000 14	2023-08-01 02:28:52	2023-08-15 02:28:52	2023-08-15 02:28:52
19	33	MG000000 18	2023-09-13 17:06:13	2023-09-27 17:06:13	2023-09-21 17:06:13
20	57	BK000000 04	2023-09-11 15:05:38	2023-09-25 15:05:38	2023-09-16 15:05:38
21	32	MG000000 13	2024-06-25 00:41:46	2024-07-09 00:41:46	2024-06-26 00:41:46
22	20	BK000000 06	2023-07-22 19:34:22	2023-08-05 19:34:22	2023-07-24 19:34:22
23	51	MG000000 12	2024-08-13 05:12:16	2024-08-27 05:12:16	null
25	41	MG000000 14	2024-12-14 21:52:17	2024-12-28 21:52:17	null

30	18	MG000000 18	2024-06-20 11:37:18	2024-07-04 11:37:18	2024-07-04 11:37:18
31	38	BK000000 09	2023-05-31 16:53:11	2023-06-14 16:53:11	null
32	45	BK000000 19	2023-07-31 13:15:45	2023-08-14 13:15:45	null
35	20	MG000000 01	2024-01-16 19:14:13	2024-01-30 19:14:13	2024-02-04 19:14:13
37	15	BK000000 01	2024-08-01 08:16:44	2024-08-15 08:16:44	null
38	45	BK000000 06	2024-11-20 03:19:10	2024-12-04 03:19:10	2024-11-30 03:19:10
40	22	MG000000 16	2025-02-03 11:44:04	2025-02-17 11:44:04	2025-02-04 11:44:04
41	39	BK000000 02	2024-12-13 02:27:51	2024-12-27 02:27:51	2024-12-22 02:27:51
43	50	BK000000 10	2023-08-13 11:11:23	2023-08-27 11:11:23	2023-08-26 11:11:23
44	38	MG000000 13	2024-06-24 01:58:24	2024-07-08 01:58:24	null
46	14	BK000000 05	2024-04-09 15:23:51	2024-04-23 15:23:51	null

48	33	MG000000 08	2024-10-06 16:53:10	2024-10-20 16:53:10	2024-10-13 16:53:10
49	13	MG000000 03	2025-01-10 12:25:27	2025-01-24 12:25:27	null
50	46	BK000000 09	2023-09-20 05:10:11	2023-10-04 05:10:11	2023-10-06 05:10:11
52	11	BK000000 13	2023-05-27 12:39:41	2023-06-10 12:39:41	null
53	60	BK000000 08	2024-09-02 04:20:40	2024-09-16 04:20:40	2024-09-11 04:20:40
54	35	BK000000 13	2024-10-26 18:17:29	2024-11-09 18:17:29	2024-11-14 18:17:29
55	43	MG000000 04	2024-02-04 23:46:59	2024-02-18 23:46:59	null
56	20	MG000000 09	2023-09-09 19:19:50	2023-09-23 19:19:50	2023-09-13 19:19:50
57	18	BK000000 19	2024-03-27 03:08:53	2024-04-10 03:08:53	null
58	35	MG000000 15	2025-01-09 09:05:55	2025-01-23 09:05:55	2025-01-14 09:05:55
59	37	BK000000 19	2023-09-22 07:06:42	2023-10-06 07:06:42	null

62	59	MG000000 04	2025-01-06 13:17:25	2025-01-20 13:17:25	null
63	44	BK000000 20	2024-12-08 08:39:15	2024-12-22 08:39:15	null
66	53	BK000000 12	2024-08-31 01:14:59	2024-09-14 01:14:59	2024-09-13 01:14:59
67	38	BK000000 17	2024-11-26 18:02:12	2024-12-10 18:02:12	2024-12-09 18:02:12
68	60	BK000000 13	2023-12-04 04:27:43	2023-12-18 04:27:43	2023-12-07 04:27:43
70	27	BK000000 17	2023-05-24 17:55:17	2023-06-07 17:55:17	2023-06-10 17:55:17
71	35	BK000000 05	2023-05-23 10:41:50	2023-06-06 10:41:50	null
72	15	MG000000 19	2024-11-20 17:30:01	2024-12-04 17:30:01	null
74	14	MG000000 15	2023-07-27 10:56:09	2023-08-10 10:56:09	null
75	32	MV000000 13	2024-09-10 16:10:38	2024-09-24 16:10:38	2024-09-30 16:10:38
78	55	MV000000 01	2024-02-14 06:59:08	2024-02-28 06:59:08	2024-02-16 06:59:08

79	16	MV000000 01	2024-05-25 05:54:11	2024-06-08 05:54:11	2024-06-05 05:54:11
80	42	MV000000 13	2024-06-27 15:58:49	2024-07-11 15:58:49	2024-07-06 15:58:49
81	20	MV000000 09	2023-09-09 19:19:50	2023-09-23 19:19:50	2023-09-13 19:19:50
82	18	MV000000 19	2024-03-27 03:08:53	2024-04-10 03:08:53	null
83	35	MV000000 15	2025-01-09 09:05:55	2025-01-23 09:05:55	2025-01-14 09:05:55
84	37	MV000000 19	2023-09-22 07:06:42	2023-10-06 07:06:42	null
85	59	MV000000 04	2025-01-06 13:17:25	2025-01-20 13:17:25	null
86	44	MV000000 20	2024-12-08 08:39:15	2024-12-22 08:39:15	null
87	53	MV000000 12	2024-08-31 01:14:59	2024-09-14 01:14:59	2024-09-13 01:14:59
88	38	MV000000 17	2024-11-26 18:02:12	2024-12-10 18:02:12	2024-12-09 18:02:12
89	60	MV000000 13	2023-12-04 04:27:43	2023-12-18 04:27:43	2023-12-07 04:27:43

90	27	MV000000 17	2023-05-24 17:55:17	2023-06-07 17:55:17	2023-06-10 17:55:17
91	35	MV000000 05	2023-05-23 10:41:50	2023-06-06 10:41:50	null
92	15	MV000000 19	2024-11-20 17:30:01	2024-12-04 17:30:01	null
93	14	MV000000 15	2023-07-27 10:56:09	2023-08-10 10:56:09	null
94	28	BK000000 03	2023-06-01 10:00:00	2023-06-15 10:00:00	2023-06-18 10:00:00
95	36	BK000000 07	2024-02-20 13:30:00	2024-03-05 13:30:00	2024-03-10 13:30:00
96	21	BK000000 11	2023-12-01 09:00:00	2023-12-15 09:00:00	2023-12-20 09:00:00
97	19	BK000000 14	2024-10-10 15:20:00	2024-10-24 15:20:00	2024-10-30 15:20:00
98	31	BK000000 15	2023-03-05 14:45:00	2023-03-19 14:45:00	2023-03-25 14:45:00

downloads

download_id	user_id	media_id	download_date
1	54	DM00000003	2024-04-15 12:37:56

2	52	DM00000011	2024-08-27 01:01:54
3	38	DM00000015	2024-12-02 14:26:49
4	19	DM00000009	2024-11-28 03:17:14
5	59	DM00000004	2024-12-04 10:37:37
6	22	DM00000016	2024-09-01 14:07:55
7	33	DM00000019	2024-08-21 12:28:22
8	22	DM00000015	2024-09-03 12:12:01
9	28	DM00000019	2024-10-18 17:15:58
10	27	DM00000005	2024-05-10 02:50:35
11	49	DM00000012	2024-10-16 04:34:51
12	38	DM00000014	2024-06-01 21:44:30
13	45	DM00000001	2024-11-28 06:53:25
14	49	DM00000007	2025-02-07 03:48:12
15	13	DM00000018	2024-12-15 07:27:41
16	54	DM00000019	2024-11-07 16:07:59

17	58	DM00000008	2024-11-23 21:25:28
18	29	DM00000003	2024-12-08 03:55:35
19	21	DM00000011	2024-08-01 19:29:33
20	41	DM00000014	2025-03-15 14:58:03
21	43	DM00000014	2025-01-16 22:09:23
22	25	DM00000011	2024-05-01 17:29:24
23	12	DM00000020	2024-05-07 07:30:57
24	49	DM00000012	2024-10-09 00:08:05
25	57	DM00000011	2024-06-16 01:05:39
26	38	DM00000006	2024-04-04 00:21:00
27	14	DM00000001	2024-12-19 19:40:45
28	19	DM00000001	2024-12-24 09:52:42
29	27	DM00000005	2025-01-04 04:24:15
30	46	DM00000012	2024-11-29 10:14:46
31	17	DM00000010	2025-02-04 05:27:25

32	16	DM00000006	2025-01-01 09:19:12
33	18	DM00000009	2024-11-03 23:24:52
34	22	DM00000009	2024-04-13 11:54:22
35	43	DM00000005	2024-06-14 19:07:45
36	32	DM00000006	2024-10-19 23:26:24
37	16	DM00000013	2024-11-06 14:17:13
38	36	DM00000019	2024-08-22 01:51:10
39	35	DM00000016	2024-08-20 01:19:54
40	40	DM00000018	2024-09-08 13:15:07

reserves

reserves_id	user_id	media_id	reserve_start	reserve_end
0	24	MG00000018	2024-08-18 00:38:41	2024-09-01 00:38:41
1	42	BK00000004	2025-01-06 06:50:48	2025-01-15 06:50:48
4	23	MG00000015	2024-04-10 06:37:23	2024-04-16 06:37:23
6	43	MG00000016	2025-01-02 16:25:28	2025-01-12 16:25:28

7	28	MG00000018	2024-07-15 13:17:51	2024-07-23 13:17:51
8	53	BK00000011	2024-06-27 08:26:35	2024-07-03 08:26:35
9	37	MG00000018	2024-09-26 02:22:25	2024-10-10 02:22:25
10	26	BK00000007	2024-07-29 02:15:14	null
12	51	MG00000018	2024-11-02 15:07:57	null
13	53	BK00000003	2024-12-12 07:03:48	2024-12-18 07:03:48
14	60	MG00000004	2024-11-28 11:59:15	null
15	49	MG00000005	2025-01-12 06:50:23	2025-01-21 06:50:23
16	15	BK00000012	2024-11-14 23:49:39	null
17	27	BK00000008	2024-06-19 17:15:29	2024-07-03 17:15:29
18	27	MV00000008	2024-08-18 00:38:41	2024-09-01 00:38:41
19	27	MV00000008	2024-07-29 02:15:14	null
20	27	MV00000009	2024-11-02 15:07:57	null
21	27	MV00000012	2024-04-10 06:37:23	2024-04-16 06:37:23
22	27	MV00000020	2024-11-02 15:07:57	null

Media

media_id	date_published
BK00000001	2024-07-04
BK00000002	2012-12-01
BK00000003	2011-12-17
BK00000004	2014-10-15
BK00000005	2021-07-23
BK00000006	2001-06-25
BK00000007	2023-06-08
BK00000008	2022-11-02
BK00000009	1991-03-25
BK00000010	2021-01-29
BK00000011	1989-07-20
BK00000012	2003-06-08
BK00000013	2012-06-05

BK00000014	2024-11-22
BK00000015	2018-01-23
BK00000016	2020-11-04
BK00000017	2010-08-23
BK00000018	2024-11-17
BK00000019	2017-08-17
BK00000020	2016-03-19
DM00000001	2018-10-24
DM00000002	2023-06-02
DM00000003	2021-11-11
DM00000004	2006-09-02
DM00000005	2023-10-19
DM00000006	2018-10-13
DM00000007	2024-03-18
DM00000008	2022-05-05

DM00000009	2016-04-13
DM00000010	2024-08-25
DM00000011	2022-06-02
DM00000012	2010-12-31
DM00000013	1977-02-15
DM00000014	2010-06-23
DM00000015	2020-06-03
DM00000016	1976-04-04
DM00000017	2007-02-10
DM00000018	2014-07-28
DM00000019	2023-09-13
DM00000020	1990-12-21
MG00000001	2018-01-09
MG00000002	2015-07-11
MG00000003	2023-04-22

MG00000004	2020-12-02
MG00000005	2008-08-19
MG00000006	2021-03-14
MG00000007	2016-10-09
MG00000008	2022-09-25
MG00000009	2019-05-07
MG00000010	2024-04-05
MG00000011	2004-06-28
MG00000012	1984-03-17
MG00000013	2023-08-12
MG00000014	2021-09-09
MG00000015	2020-10-22
MG00000016	2017-12-29
MG00000017	2013-05-06
MG00000018	2019-11-13

MG00000019	2023-11-02
MG00000020	2014-01-28
MV00000001	2010-06-30
MV00000002	2022-02-25
MV00000003	2024-05-16
MV00000004	2015-03-11
MV00000005	2002-07-05
MV00000006	2017-06-07
MV00000007	2023-01-29
MV00000008	2006-02-14
MV00000009	2021-06-12
MV00000010	2019-03-22
MV00000011	2016-05-01
MV00000012	2022-08-19
MV00000013	2018-09-04

MV00000014	2023-05-27
MV00000015	2000-11-08
MV00000016	1982-04-23
MV00000017	2021-10-10
MV00000018	2014-08-30
MV00000019	1997-12-06
MV00000020	2024-03-09

Book

media_id	title	author	genre	is_reserved
BK00000001	The Silent Grove	Alice Monroe	Fiction	0
BK00000002	Quantum Drift	Eric Thomas	Sci-Fi	0
BK00000003	Legends of Stone	Lily Andrews	Fantasy	1
BK00000004	Ethics Engine	Dr. John Carter	Non-fiction	0
BK00000005	Shadow Signal	Dan Blake	Mystery	1
BK00000006	Echoes of Time	Maggie Liu	Fiction	0

BK00000007	Crimson Sky	Tina Ray	Fantasy	0
BK00000008	Digital Mirage	James Noland	Sci-Fi	0
BK00000009	Beneath the Ashes	Veronica Greene	Mystery	1
BK00000010	Gravity's Kiss	Isabel Young	Fiction	0
BK00000011	The Star Ledger	Hank Jefferson	Sci-Fi	0
BK00000012	Mindbreaker	Liam Drake	Fantasy	1
BK00000013	Voices of Tomorrow	Nina White	Non-fiction	0
BK00000014	A Thousand Dreams	Sophia Kim	Fiction	0
BK00000015	Deep Protocol	Ravi Patel	Sci-Fi	1
BK00000016	Suburban Myths	Zara Lopez	Fiction	0
BK00000017	Coded Lies	Nathan Grey	Mystery	0
BK00000018	Legacy of Light	Rachel Lim	Fantasy	1
BK00000019	Hidden Datastream	Carlos Vega	Non-fiction	0
BK00000020	The Whispered Word	Debra Ford	Mystery	0

Movie

media_id	title	genre	director	publisher	is_reserved
MV00000001	Echoes in the Void	Sci-Fi	Mia Turner	SilverScreen Studios	0
MV00000002	Neon Skies	Sci-Fi	Kevin Wright	Galaxy Films	0
MV00000003	The Final Tune	Romance	Eliza Stone	NoteLine Pictures	0
MV00000004	Black Code	Thriller	Marcus Lee	ThrillNet	1
MV00000005	Parallel Earths	Sci-Fi	Nora Diaz	CosmoMedia	0
MV00000006	Haunted Grid	Horror	Felix Grant	DarkVault Films	1
MV00000007	Life of Waves	Documentary	Tasha Moore	Ocean View	0
MV00000008	Echo Chamber	Mystery	Jon Nguyen	Indie Circuit	0
MV00000009	Forgotten Frames	Drama	Alex Johnson	FrameHouse	0
MV00000010	CyberThief	Action	Maria Yu	HackReel Studios	1

MV000000 11	Glitched Reality	Sci-Fi	Iris Fields	Virtual Realm	0
MV000000 12	Dust and Rain	Drama	Cole Anderson	Visionaire Films	0
MV000000 13	Mindwave	Thriller	Angela Smith	PulseTV	0
MV000000 14	Love in Code	Romance	Jacob Lin	HeartBit Films	1
MV000000 15	Rogue Galaxy	Sci-Fi	Yasmine King	Universal Future	0
MV000000 16	The Cellar Door	Horror	Darren Wolfe	Cryptic Films	0
MV000000 17	Voices Over Time	Drama	Ella Martin	RetroFrame	1
MV000000 18	Encrypted	Thriller	Tommy Graves	SecureFlicks	0
MV000000 19	Between Dimensions	Sci-Fi	Rei Hayashi	Quantum Cinema	0
MV000000 20	Solar Drift	Adventure	Kelly Owens	Orbital Media	0

Magazine

media_id	volume_no	issue_no	title	genre	publication	is_reserved
MG00000001	12	1	Tech Today	Technology	Info Digest	0
MG00000002	9	3	Science World	Science	Global Science	0
MG00000003	5	2	ArtBeat	Art	Color Press	1
MG00000004	3	6	History Monthly	History	Past & Present Co.	0
MG00000005	7	1	Fitness Focus	Health	Wellness Works	0
MG00000006	4	5	Eco View	Environment	GreenFuture	1
MG00000007	6	12	Culinary Trends	Cooking	Flavor Publishers	0
MG00000008	10	2	Business Lens	Business	Market Media	0
MG00000009	8	7	Auto Today	Automotive	MotorWorks	0
MG00000010	2	4	Urban Style	Lifestyle	CityPrint	1

MG00000 011	15	11	GamerZone	Gaming	Pixel Press	0
MG00000 012	11	10	The Analyst	Finance	WallFin	0
MG00000 013	6	3	Explorer	Travel	Wanderlust Media	0
MG00000 014	1	9	EduNation	Education	EduCore Press	0
MG00000 015	7	8	Next Gen Tech	Technolog y	TechForge	1
MG00000 016	3	6	The Garden Gate	Gardening	PlantHouse	0
MG00000 017	9	2	Mind Matters	Psycholog y	BrainHub	1
MG00000 018	14	5	Cinema Scope	Entertainm ent	Reel Ink	0
MG00000 019	8	4	The Writer's Den	Literature	Pen & Paper	0
MG00000 020	10	1	Digital Culture	Culture	Viral Vox	0

DigitalMedia

media_id	title	genre	publisher	file_type
DM00000001	Cognition Rebooted	Sci-Fi	NeoVerse Media	epub
DM00000002	Haunted Signals	Horror	NightByte	mp4
DM00000003	Mindful Minutes	Health	Serenity Pub	mp3
DM00000004	Urban Beats	Music	CitySounds	mp3
DM00000005	The Startup Bible	Business	LaunchMedia	pdf
DM00000006	Digital Nomads	Travel	Global Footsteps	epub
DM00000007	Hacktivist Echo	Tech	ByteWorld	pdf
DM00000008	AI Dreams	Sci-Fi	Singularity Hub	epub
DM00000009	True Crime Files	Crime	Grit Media	mp4
DM00000010	Ocean Wonders	Nature	DeepSea Vision	mp4
DM00000011	Smart Cooking	Cooking	Kitchen Code	pdf
DM00000012	Life in 2040	Futurism	TimeShift	epub
DM00000013	Meditation Daily	Wellness	Zen Media	mp3
DM00000014	Financial Toolkit	Finance	MoneyCraft	pdf

DM00000015	Virtual Realms	Gaming	GameNet	mp4
DM00000016	Mars Chronicles	Sci-Fi	RedDust Studios	epub
DM00000017	Eco Living	Environment	GreenHouse	pdf
DM00000018	Digital Fashion	Fashion	TrendForge	pdf
DM00000019	The Future Mind	Neuroscience	NeuroPub	epub
DM00000020	Quiet Forests	Nature	Calm Earth	mp4