

TABLES

```
mysql> show tables;
```

Tables_in_db	
books	
books_issued	
members	
publishers	

```
mysql> desc books;
```

Field	Type	Null	Key	Default	Extra
bid	varchar(20)	NO	PRI	NULL	
title	varchar(30)	YES		NULL	
author	varchar(30)	YES		NULL	
status	varchar(30)	YES		NULL	
price	decimal(10,2)	NO		0.00	
copies	int	NO		1	

```
mysql> desc books_issued;
```

Field	Type	Null	Key	Default	Extra
bid	varchar(20)	NO	PRI	NULL	
issuedto	varchar(30)	YES		NULL	

```
mysql> desc members;
```

Field	Type	Null	Key	Default	Extra
member_id	varchar(20)	NO	PRI	NULL	
name	varchar(100)	NO		NULL	
address	varchar(255)	NO		NULL	
issue_date	date	NO		curdate()	DEFAULT_GENERATED
exp_date	date	NO		(curdate() + interval 6 month)	DEFAULT_GENERATED
password	varchar(255)	NO		NULL	

```
mysql> desc publishers;
```

Field	Type	Null	Key	Default	Extra
pub_id	varchar(20)	NO	PRI	NULL	
name	varchar(100)	NO		NULL	
address	varchar(255)	NO		NULL	
password	varchar(255)	NO		NULL	

INSERTION INTO TABLES

```
mysql> INSERT INTO books (bid, title, author, status, price, copies) VALUES
-> ('B001', 'The Great Gatsby', 'F. Scott Fitzgerald', 'Available', 499.99, 5),
-> ('B002', '1984', 'George Orwell', 'Available', 399.50, 3);
```

```
mysql> INSERT INTO books_issued (bid, issuedto) VALUES
-> ('B001', 'M001'),
-> ('B002', 'M002');
```

```
mysql> INSERT INTO members (member_id, name, address, issue_date, exp_date, password) VALUES
-> ('M001', 'Aarjav Godha', 'Chennai, India', CURDATE(), DATE_ADD(CURDATE(), INTERVAL 6 MONTH), 'password123'),
-> ('M002', 'Tanishq Singh', 'Delhi, India', CURDATE(), DATE_ADD(CURDATE(), INTERVAL 6 MONTH), 'securepass456');
```

```
mysql> INSERT INTO publishers (pub_id, name, address, password) VALUES
-> ('P001', 'Penguin Random House', 'New York, USA', 'pubpass123'),
-> ('P002', 'HarperCollins', 'London, UK', 'harperpass456');
```

TABLE WITH RECORDS

```
mysql> select * from books;
```

bid	title	author	status	price	copies
111	harry potter	JK Rowling	Available	599.00	3
123	math	aarjav	Available	788.00	3
2222	history of india	steven	Available	7999.00	1
321	chem	paridhi	Available	1221.00	1
4321	phy	jarsh	Available	4321.00	2
999	mystery of time	ayush	Available	1000.00	8
B001	The Great Gatsby	F. Scott Fitzgerald	Available	499.99	5
B002	1984	George Orwell	Available	399.50	3

```
mysql> select * from books_issued;
```

bid	issuedto
B001	M001
B002	M002

```
mysql> select * from members;
```

member_id	name	address	issue_date	exp_date	password
M001	Aarjav Godha	Chennai, India	2025-03-06	2025-09-06	password123
M002	Tanishq Singh	Delhi, India	2025-03-06	2025-09-06	securepass456

```
mysql> select * from publishers;
```

pub_id	name	address	password
624	vishwajeet	delhi	vishwajeet
P001	Penguin Random House	New York, USA	pubpass123
P002	HarperCollins	London, UK	harperpass456

SOME QUERIES

```
mysql> SELECT * FROM books WHERE status = 'Available';
```

bid	title	author	status	price	copies
111	harry potter	JK Rowling	Available	599.00	3
123	math	aarjav	Available	788.00	3
2222	history of india	steven	Available	7999.00	1
321	chem	paridhi	Available	1221.00	1
4321	phy	jarsh	Available	4321.00	2
999	mystery of time	ayush	Available	1000.00	8
B001	The Great Gatsby	F. Scott Fitzgerald	Available	499.99	5
B002	1984	George Orwell	Available	399.50	3

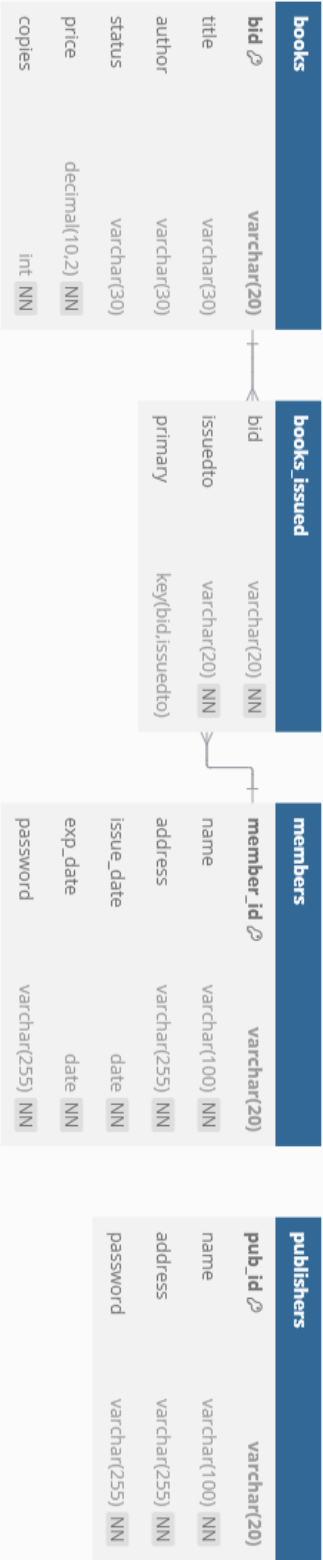
```
mysql> SELECT * FROM members ORDER BY name ASC;
```

member_id	name	address	issue_date	exp_date	password
M001	Aarjav Godha	Chennai, India	2025-03-06	2025-09-06	password123
M002	Tanishq Singh	Delhi, India	2025-03-06	2025-09-06	securepass456

```
mysql> SELECT issuedto, COUNT(*) AS books_issued FROM books_issued GROUP BY issuedto;
```

issuedto	books_issued
M001	1
M002	1

RELATIONAL SCHEMA



ER DIAGRAM

