TABLES

mysql> desc books;

| price | decimal(10,2) | NO

| copies | int

| mysql> show tables; ++ Tables_in_db | |
|--|--|
| ++ books books_issued members publishers | |

| | + | | | | |
|----------------------------|---|-----------|-----|--------------|-------|
| Field | Type | Null | Key | Default | Extra |
| bid title author | varchar(20) varchar(30) varchar(30) | NO YES | PRI | NULL NULL | |

l NO

0.00

| /sql> desc me | ; | · | . | . | |
|---|--|----------------|----------|---|--|
| Field | Туре | Null | Key | Default | Extra |
| member_id name address issue_date exp_date password | varchar(20) varchar(100) varchar(255) date date varchar(255) | NO NO NO | PRI | NULL NULL NULL curdate() (curdate() + interval 6 month) NULL | - DEFAULT_GENERATED DEFAULT_GENERATED |

| mysql> desc | publishers; | | | | |
|-------------------|---|----------|-----|------------------------------|-------|
| Field | Туре | Null | Key | Default | Extra |
| name address | varchar(20) varchar(100) varchar(255) varchar(255) | NO NO | PRI | NULL NULL NULL 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

| select * from books; | | | | |
|----------------------|--|---|--|--|
| title | author | status | price | copies |
| harry potter | JK Rowling | Available | 599.00 | 3 |
| math | aarjav | Available | 788.00 | 3 |
| history of india | steven | Available | 7999.00 | 1 |
| chem | paridhi | Available | 1221.00 | 1 |
| phy | jarsh | Available | 4321.00 | 2 |
| mystery of time | ayush | Available | 1000.00 | 8 |
| | F. Scott Fitzgerald | Available | 499.99 | j 5 j |
| 1984 | George Orwell | Available | 399.50 | j 3 j |
| | harry potter math history of india chem phy mystery of time The Great Gatsby | harry potter JK Rowling math aarjav history of india steven chem paridhi phy jarsh mystery of time ayush The Great Gatsby F. Scott Fitzgerald | title author status harry potter JK Rowling Available math aarjav Available history of india steven Available chem paridhi Available phy jarsh Available mystery of time ayush Available The Great Gatsby F. Scott Fitzgerald Available | title author status price harry potter JK Rowling Available 599.00 math aarjav Available 788.00 history of india steven Available 7999.00 chem paridhi Available 1221.00 phy jarsh Available 4321.00 mystery of time ayush Available 1000.00 The Great Gatsby F. Scott Fitzgerald Available 499.99 |

```
mysql> select * from books_issued;
+----+
| bid | issuedto |
+----+
| B001 | M001 |
| B002 | M002 |
+----+
```

mysql> select * from members;

| member_id name | address | + issue_date + | exp_date | ++ password |
|------------------|----------------------------------|------------------------|----------|----------------------------------|
| | Chennai, India Delhi, India | | | password123 securepass456 |

mysql> select * from publishers;

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

SOME QUERIES

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

| 111 | + | title | author | status | price | |
|-------------|---|--|---|---|---|-------------------------------|
| 2002 270. | 123 2222 321 4321 999 | math history of india chem phy mystery of time | aarjav steven paridhi jarsh ayush | Available Available Available Available Available | 788.00 7999.00 1221.00 4321.00 | 3 1 1 2 8 |

mysql> SELECT * FROM members ORDER BY name ASC;

| member_id name | + address | + issue_date | exp_date | password |
|---|----------------------------------|-------------------|----------|----------------------------------|
| M001 Aarjav Godha M002 Tanishq Singh | Chennai, India Delhi, India | | | password123 securepass456 |

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

| + | |
|------------------|--------------|
| issuedto | books_issued |
| M001 M002 | 1 1 |

RELATIONAL SCHEMA

| books | | | books_issued | | | members | | publishers | |
|--------|-------------------|---|--------------|-------------------|---------|-------------|-----------------|------------|--|
| bid 🖉 | varchar(20) + did | † | bid | varchar(20) NN | 7 | member_id Ø | varchar(20) | pub_id 🖉 | |
| title | varchar(30) | | issuedto | varchar(20) NN | <u></u> | name | varchar(100) NN | name | |
| author | varchar(30) | | primary | key(bid,issuedto) | | address | varchar(255) NN | address | |
| status | varchar(30) | | | | | issue_date | date NN | password | |
| price | decimal(10,2) NN | | | | | exp_date | date NN | | |
| copies | int NN | | | | | password | varchar(255) NN | | |
| | | | | | | | | | |

| publishers | |
|------------|-----------------|
| pub_id 🖉 | varchar(20) |
| name | varchar(100) NN |
| address | varchar(255) NN |
| password | varchar(255) NN |

price copies status password author name **PUBLISHERS** Published BOOKS address title bi dud Issued to bid password BOOKS_ISSUED MEMBERS issues name issuedto address exp_date issue_date

ER DIAGRAM