

```
CREATE DATABASE library_management;
```

```
SHOW DATABASES;
```

```
USE library_management;
```

```
CREATE TABLE categories(  
    id INT PRIMARY KEY,  
    name VARCHAR(255) NOT NULL  
);
```

```
CREATE TABLE books(  
    id INT PRIMARY KEY,  
    title VARCHAR(255) NOT NULL,  
    author VARCHAR(255) NOT NULL,  
    publisher VARCHAR(255),  
    year INT,  
    category_id INT,  
    FOREIGN KEY (category_id) REFERENCES categories(id)  
);
```

```
CREATE TABLE members(  
    id INT PRIMARY KEY,  
    name VARCHAR(255) NOT NULL,  
    phone VARCHAR(15)  
);
```

```
CREATE TABLE borrowings(  
    book_id INT,  
    member_id INT,  
    borrow_date DATE,  
    due_date DATE,  
    return_date DATE,  
    fine DECIMAL(10,2),  
    FOREIGN KEY (book_id) REFERENCES books(id),  
    FOREIGN KEY (member_id) REFERENCES members(id)
```

);

SHOW TABLES;

DESC books;

DESC members;

DESC categories;

DESC borrowings;

INSERT INTO categories VALUES (1,'Novels'), (2,'Science'), (3,'History'), (4,'Short Stories'),
(5,'Biographies'), (6,'Children Stories'),(7,'Poetry'),
(8,'Buddhist'), (9,'ICT'), (10,'Max');

SELECT * FROM categories;

INSERT INTO books (id, title, author, publisher, year, category_id) VALUES (11, 'Gamperaliya',
'Martin Wickramasinghe', 'M. D. Gunasena & Co. Ltd.', 1994, 1),(12, 'Madol Doova', 'Martin
Wickramasinghe', 'M. D. Gunasena & Co. Ltd.', 1947, 1),(13, 'Viragaya', 'Martin
Wickramasinghe', 'M. D. Gunasena & Co. Ltd.', 1956, 1),(14, 'Sinhala Yaa', 'Dr. Siri
Gunasinghe', 'M.D. Gunasena & Company', 1966, 3),(15, 'Mahawamsa', 'Ven. Mahanama
Thero', 'M.D. Gunasena & Company', 1912, 3),(16, 'Sinhala Bauddha Itihasaya', 'Dr. G.P.
Malalasekera', 'The Colombo Apothecaries Co. Ltd.', 1932, 3),(17, 'Apa Jeevithe', 'Jayathilaka
Kandegoda', 'Sarasavi', 2016, 5),(18, 'Athigaamee Jeevithaya', 'H.A. Kahandawila', 'Muditha',
2014, 5),(19, 'Pawura', 'Silmie', 'Samaya Prakashana', 2016, 7),(20, 'Gamburu Heena',
'Chamath Kumaragama', 'Sarasavi Publishers', 2020, 7);

SELECT * FROM books;

INSERT INTO members (id, name, phone) VALUES (1, 'Kamal', '0712098052'),(2, 'Nimal',
'0749563548'),(3, 'Sunil', '0784564675'),(4, 'Amal', '0704657896'),
(5, 'Sadani', '0765894589'),(6, 'Nirosha', '0786578907'),(7, 'Samadi', '0756879457'),(8,
'Waruni', '0768906764'),(9, 'Kamani', '0768594578'),
(10, 'Malki', '0756984765');

SELECT * FROM members;

```
INSERT INTO borrowings (book_id, member_id, borrow_date, due_date, return_date, fine)
VALUES (11, 1, '2024-02-03', '2024-02-10', '2024-02-08', 0.00),
      (12, 2, '2024-02-06', '2024-02-13', '2024-02-10', 0.00),(13, 3, '2024-02-08', '2024-02-16',
      '2024-02-15', 0.00),(14, 4, '2024-02-11', '2024-02-18', '2024-02-18', 0.00),
      (15, 5, '2024-02-15', '2024-02-22', '2024-02-23', 5.00),(16, 6, '2024-02-20', '2024-02-27',
      '2024-02-25', 0.00),(17, 7, '2024-03-02', '2024-03-09', '2024-03-08', 0.00),
      (18, 8, '2024-03-05', '2024-03-13', '2024-03-10', 0.00),(19, 9, '2024-03-12', '2024-03-19',
      '2024-03-18', 0.00), (20, 10, '2024-03-20', '2024-03-27', '2024-03-25', 0.00);

SELECT * FROM borrowings;
```