CREATE TABLE table\_publisher (

PublisherName VARCHAR(50) PRIMARY KEY NOT NULL,

PublisherAddress VARCHAR(100) NOT NULL,

PublisherPhone VARCHAR(20) NOT NULL

);

CREATE TABLE table\_book (

BookID INT PRIMARY KEY NOT NULL,

Book\_Title VARCHAR(100) NOT NULL,

PublisherName VARCHAR(100) NOT NULL

);

CREATE TABLE table\_library\_branch (

library\_branch\_BranchID INT PRIMARY KEY NOT NULL IDENTITY (

library branch BranchName VARCHAR(100) NOT NULL, library\_branch\_BranchAddress VARCHAR(200) NOT NULL,

);

SELECT FROM table\_library\_branch

CREATE TABLE table\_borrower (

CardNo INT PRIMARY KEY NOT NULL IDENTITY (100,1),

BorrowerName VARCHAR(100) NOT NULL,

BorrowerAddress VARCHAR(200) NOT NULL,

BorrowerPhone VARCHAR(50) NOT MILL,

);

CREATE TABLE table\_book\_copies (

book\_copies CopiesID INT PRIMARY KEY NOT NULL

book\_copies BookID INT NOT NULL

book\_copies BranchID INT NOT NULL

book\_copies No Of Copies INT NOT NULL,

);

SELECT FROM table\_book\_copies CREATE TABLE table\_book\_authors (

book\_authors AuthorID INT PRIMARY KEY NOT NULL IDENTITY (1,1),

book\_authors BookID INT NOT NULL CONSTRAINT fk\_book\_id3 FOREIGN KEY REFERENCES table\_book(book\_BookID) ON UPDATE CASCADE ON DELETE CASCADE, table\_book(book\_BookID) ON UPDATE CASCADE,

book authors AuthorName VARCHAR(50) NOT NULL,

);

SELECT FROM table\_book\_authors

CREATE TABLE IF NOT EXISTS `book` (

`isbn` char(13) NOT NULL,

`title` varchar(80) NOT NULL,

`author` varchar(80) NOT NULL,

`publisher` varchar(80) NOT NULL,

`page` int(100) unsigned NOT NULL,

);

INSERT INTO `book` (`isbn`, `title`, `author`, `publisher`, `page`) VALUES

('9788654552277', 'X-Men: God Loves, Man Kills', 'Chris', 'HarperCollins', 100),

('0964161484100', 'Mike Tyson : Undisputed Truth', 'Larry Sloman, Mike Tyson', 'Penguin Random House', 60),

('6901142585540', 'V for Vendetta', 'Alan Moore', 'Simon and Schuster', 80),

('9094996245442', 'When Breath Becomes Air', 'Paul Kalanithi', 'MHachette Book Group', 20),

('8653491200700', 'The Great Gatsby', 'F. Scott Fitzgerald', 'Flashlight Press', 40);

CREATE TABLE IF NOT EXISTS `book\_issue` (

`issue\_id` int(11) NOT NULL,

`member` varchar(20) NOT NULL,

`book\_isbn` varchar(13) NOT NULL,

`due\_date` date NOT NULL,

`last\_reminded` date DEFAULT NULL

) ;

CREATE TRIGGER `issue\_book` BEFORE INSERT ON `book\_issue`

FOR EACH ROW BEGIN

SET NEW.due\_date = DATE\_ADD(CURRENT\_DATE, INTERVAL 20 DAY);

UPDATE member SET balance = balance - (SELECT price FROM book WHERE

isbn = NEW.book\_isbn) WHERE username = NEW.member;

UPDATE book SET copies = copies - 1 WHERE isbn = NEW.book\_isbn;

DELETE FROM pending\_book\_requests WHERE member = NEW.member AND book\_isbn = NEW.book\_isbn;

END

CREATE TRIGGER `return\_book` BEFORE DELETE ON `book\_issue`

FOR EACH ROW BEGIN

UPDATE member SET balance = balance + (SELECT price FROM book WHERE isbn = OLD.book\_isbn) WHERE username = OLD.member;

UPDATE book SET copies = copies + 1 WHERE isbn = OLD.book\_isbn;

END

CREATE TABLE IF NOT EXISTS `librarian` (

`id` int(11) NOT NULL,

`username` varchar(20) NOT NULL,

`password` char(40) NOT NULL

) ;

INSERT INTO `librarian` (`id`, `username`, `password`) VALUES

(1, 'Vani', 'xthds97@3h$yfc\*jrk0%dfg$');

CREATE TABLE IF NOT EXISTS `member` (

`id` int(11) NOT NULL,

`username` varchar(20) NOT NULL,

`password` char(40) NOT NULL,

`name` varchar(80) NOT NULL,

`email` varchar(80) NOT NULL,

`balance` int(4) NOT NULL

);

CREATE TRIGGER `add\_member` AFTER INSERT ON `member`

FOR EACH ROW DELETE FROM pending\_registrations WHERE username = NEW.username

CREATE TRIGGER `remove\_member` AFTER DELETE ON `member`

FOR EACH ROW DELETE FROM pending\_book\_requests WHERE member = OLD.username

Structure of table for pending book requests

CREATE TABLE IF NOT EXISTS `pending\_book\_requests` (

`request\_id` int(11) NOT NULL,

`member` varchar(20) NOT NULL,

`book\_isbn` varchar(13) NOT NULL,

`time` timestamp NOT NULL DEFAULT CURRENT\_TIMESTAMP

);

CREATE TABLE IF NOT EXISTS `pending\_registrations` (

`username` varchar(30) NOT NULL,

`password` char(20) NOT NULL,

`name` varchar(40) NOT NULL,

`email` varchar(20) NOT NULL,

`balance` int(10),

`time` timestamp NOT NULL DEFAULT CURRENT\_TIMESTAMPCREATE TABLE IF NOT EXISTS `pending\_registrations` (

`username` varchar(30) NOT NULL,

`password` char(20) NOT NULL,

`name` varchar(40) NOT NULL,

`email` varchar(20) NOT NULL,

`balance` int(10),

`time` timestamp NOT NULL DEFAULT CURRENT\_TIMESTAMP

);

INSERT INTO `pending\_registrations`

(`username`, `password`, `name`, `email`, `balance`, `time`)

VALUES

('Robin200', '7t6hg$56y^', 'Robin', 'robin@gmail.com', 200, '2021-03-21 08:59:00'),

('Aadhya100', 'Ujgf(76G5$#f@df', 'Aadhya', 'aadhya100@gmail.com', 1500, '2021-03-21 2:14:53');

ALTER TABLE `book`

ADD PRIMARY KEY (`isbn`);

ALTER TABLE `book\_issue`

ADD PRIMARY KEY (`issue\_id`);

ALTER TABLE `librarian`

ADD PRIMARY KEY (`id`), ADD UNIQUE KEY `username` (`username`);

ALTER TABLE `member`

ADD PRIMARY KEY (`id`), ADD UNIQUE KEY `username` (`username`), ADD UNIQUE KEY `email` (`email`);

ALTER TABLE `pending\_book\_requests`

ADD PRIMARY KEY (`request\_id`);

ALTER TABLE `pending\_registrations`

ADD PRIMARY KEY (`username`);