-- copy/paste everything including the inserts at the bottom...

DROP SCHEMA IF EXISTS db\_library;

CREATE SCHEMA db\_library;

USE db\_library;

CREATE TABLE accountid

(

accountId VARCHAR(7) NOT NULL

PRIMARY KEY

)

ENGINE = InnoDB;

CREATE INDEX accountid\_accountId\_index

ON accountid (accountId);

CREATE TABLE rentable

(

rentableId VARCHAR(7) NOT NULL

PRIMARY KEY,

upc VARCHAR(7) NOT NULL,

title VARCHAR(100) DEFAULT 'NULL' NOT NULL,

isbn VARCHAR(15) DEFAULT 'NULL' NOT NULL,

`condition` VARCHAR(15) DEFAULT 'NULL' NOT NULL,

genre VARCHAR(20) DEFAULT 'NULL' NOT NULL,

type VARCHAR(10) DEFAULT 'NULL' NOT NULL,

isAvailable TINYINT(1) DEFAULT '1' NOT NULL

)

ENGINE = InnoDB;

CREATE INDEX rentable\_upc\_index

ON rentable (upc);

CREATE TABLE rental

(

rentableId VARCHAR(7) NOT NULL

PRIMARY KEY,

start\_date DATETIME NOT NULL,

end\_date DATETIME NOT NULL,

userId VARCHAR(7) NOT NULL,

times\_renewed INT NOT NULL,

CONSTRAINT rentableId

UNIQUE (rentableId),

CONSTRAINT rental\_ibfk\_1

FOREIGN KEY (rentableId) REFERENCES rentable (rentableId),

CONSTRAINT rental\_accountid\_accountId\_fk

FOREIGN KEY (userId) REFERENCES accountid (accountId)

)

ENGINE = InnoDB;

CREATE INDEX rental\_useraccount\_UserID\_fk

ON rental (userId);

CREATE TABLE reservation

(

reservationId VARCHAR(7) NOT NULL

PRIMARY KEY,

upc VARCHAR(7) NOT NULL,

userId VARCHAR(7) NOT NULL,

reservationDate TIMESTAMP DEFAULT '0000-00-00 00:00:00' NOT NULL,

reservationExpireDate TIMESTAMP DEFAULT '0000-00-00 00:00:00' NOT NULL,

isActive TINYINT(1) NOT NULL,

reservationType VARCHAR(4) NOT NULL,

roomNumber VARCHAR(7) DEFAULT 'NO-ROOM' NOT NULL,

CONSTRAINT reservation\_rentable\_upc\_fk

FOREIGN KEY (upc) REFERENCES rentable (upc),

CONSTRAINT reservation\_accountid\_accountId\_fk

FOREIGN KEY (userId) REFERENCES accountid (accountId)

)

ENGINE = InnoDB;

CREATE INDEX reservation\_rentable\_upc\_fk

ON reservation (upc);

CREATE INDEX reservation\_accountid\_accountId\_fk

ON reservation (userId);

CREATE INDEX reservation\_room\_roomNumber\_fk

ON reservation (roomNumber);

CREATE TABLE room

(

roomNumber VARCHAR(7) NOT NULL

PRIMARY KEY,

isReserved TINYINT(1) DEFAULT '0' NOT NULL

)

ENGINE = InnoDB;

ALTER TABLE reservation

ADD CONSTRAINT reservation\_room\_rentalroomNumber\_fk

FOREIGN KEY (roomNumber) REFERENCES room (roomNumber);

CREATE TABLE staffaccount

(

StaffID VARCHAR(7) NOT NULL

PRIMARY KEY,

FirstName VARCHAR(30) NOT NULL,

LastName VARCHAR(30) NOT NULL,

Email VARCHAR(30) NOT NULL,

Username VARCHAR(30) NOT NULL,

Password VARCHAR(30) NOT NULL,

StreetNum VARCHAR(30) NOT NULL,

StreetName VARCHAR(30) NOT NULL,

City VARCHAR(30) NOT NULL,

State VARCHAR(2) NOT NULL,

Zip VARCHAR(5) NOT NULL,

CONSTRAINT staffaccount\_accountid\_accountId\_fk

FOREIGN KEY (StaffID) REFERENCES accountid (accountId)

)

ENGINE = InnoDB;

CREATE TABLE useraccount

(

UserID VARCHAR(7) NOT NULL

PRIMARY KEY,

FirstName VARCHAR(30) NOT NULL,

LastName VARCHAR(30) NOT NULL,

Email VARCHAR(30) NOT NULL,

Username VARCHAR(30) NOT NULL,

Password VARCHAR(30) NOT NULL,

StreetNum VARCHAR(30) NOT NULL,

StreetName VARCHAR(30) NOT NULL,

City VARCHAR(30) NOT NULL,

State VARCHAR(2) NOT NULL,

Zip VARCHAR(5) NOT NULL,

Balance VARCHAR(12) NOT NULL,

CONSTRAINT useraccount\_accountid\_accountId\_fk

FOREIGN KEY (UserID) REFERENCES accountid (accountId)

)

ENGINE = InnoDB;

-- test accounts

INSERT INTO accountid (accountId) VALUES ('S000000');

INSERT INTO accountid (accountId) VALUES ('U000000');

INSERT INTO staffaccount (StaffID, FirstName, LastName, Email, Username,

Password, StreetNum, StreetName, City, State, Zip)

VALUES ('S000001', 'x', 'x', 'x', 'x', 'x', 'x', 'x', 'x', 'x', 'x');

INSERT INTO useraccount (UserID, FirstName, LastName, Email, Username,

Password, StreetNum, StreetName, City, State, Zip, Balance)

VALUES ('U000001', 'x', 'x', 'x', 'x', 'x', 'x', 'x', 'x', 'x', 'x', '');

-- test rooms

INSERT INTO room (roomNumber, isReserved) VALUES ('NO-ROOM', TRUE);

INSERT INTO room (roomNumber, isReserved) VALUES ('ROOM101', FALSE);

INSERT INTO room (roomNumber, isReserved) VALUES ('ROOM102', FALSE);

INSERT INTO room (roomNumber, isReserved) VALUES ('ROOM103', FALSE);

INSERT INTO room (roomNumber, isReserved) VALUES ('ROOM104', FALSE);

INSERT INTO room (roomNumber, isReserved) VALUES ('ROOM105', FALSE);

INSERT INTO room (roomNumber, isReserved) VALUES ('ROOM106', FALSE);

INSERT INTO room (roomNumber, isReserved) VALUES ('ROOM107', FALSE);

INSERT INTO room (roomNumber, isReserved) VALUES ('ROOM108', FALSE);

INSERT INTO room (roomNumber, isReserved) VALUES ('ROOM109', FALSE);

INSERT INTO room (roomNumber, isReserved) VALUES ('ROOM110', FALSE);

-- test rentables

INSERT INTO rentable VALUES ('1111116', '1111110', 'Very Cool Movie', ' ', 'grossish', 'History', 'dvd', 1);  
INSERT INTO rentable VALUES ('1111117', '1111110', 'Very Cool Movie', ' ', 'good', 'History', 'dvd', 1);  
INSERT INTO rentable VALUES ('1111118', '1111110', 'Very Cool Movie', ' ', 'scratched', 'History', 'dvd', 1);  
INSERT INTO rentable VALUES ('1111119', '1111110', 'Very Cool Movie', ' ', 'good', 'History', 'dvd', 1);  
INSERT INTO rentable VALUES ('1111110', '1111110', 'Very Cool Movie', ' ', 'new', 'History', 'dvd', 1);  
  
INSERT INTO rentable VALUES ('2222226', '2222220', 'Not Cool Movie', ' ', 'good', 'Sci-Fi', 'dvd', 1);  
INSERT INTO rentable VALUES ('2222227', '2222220', 'Not Cool Movie', ' ', 'gross', 'Sci-Fi', 'dvd', 1);  
INSERT INTO rentable VALUES ('2222228', '2222220', 'Not Cool Movie', ' ', 'scratched', 'Sci-Fi', 'dvd', 1);  
INSERT INTO rentable VALUES ('2222229', '2222220', 'Not Cool Movie', ' ', 'good', 'Sci-Fi', 'dvd', 1);  
INSERT INTO rentable VALUES ('2222220', '2222220', 'Not Cool Movie', ' ', 'bad', 'Sci-Fi', 'dvd', 1);  
  
INSERT INTO rentable VALUES ('3333336', '3333330', 'Best Book NA', '899876', 'good', 'Fantasy', 'book', 1);  
INSERT INTO rentable VALUES ('3333337', '3333330', 'Best Book NA', '899876', 'good', 'Fantasy', 'book', 1);  
INSERT INTO rentable VALUES ('3333338', '3333330', 'Best Book NA', '899876', 'torn', 'Fantasy', 'book', 1);  
INSERT INTO rentable VALUES ('3333339', '3333330', 'Best Book NA', '899876', 'good', 'Fantasy', 'book', 1);  
INSERT INTO rentable VALUES ('3333330', '3333330', 'Best Book NA', '899876', 'bad', 'Fantasy', 'book', 1);  
  
INSERT INTO rentable VALUES ('4444446', '4444440', 'Best Book NA', '775655', 'bad', 'Fantasy', 'book', 1);  
INSERT INTO rentable VALUES ('4444447', '4444440', 'Best Book NA', '775655', 'bad', 'Fantasy', 'book', 1);  
INSERT INTO rentable VALUES ('4444448', '4444440', 'Best Book NA', '775655', 'awful', 'Fantasy', 'book', 1);  
INSERT INTO rentable VALUES ('4444449', '4444440', 'Best Book NA', '775655', 'good', 'Fantasy', 'book', 1);  
INSERT INTO rentable VALUES ('4444440', '4444440', 'Best Book NA', '775655', 'good', 'Fantasy', 'book', 1);  
  
INSERT INTO rentable VALUES ('5555556', '5555550', 'The Book', '121212121212121', 'good', 'fantasy', 'book', 1);  
INSERT INTO rentable VALUES ('5555557', '5555550', 'The Book', '121212121212121', 'good', 'fantasy', 'book', 1);  
INSERT INTO rentable VALUES ('5555558', '5555551', 'The Book vol. 2', '121212121212122', 'good', 'Horror', 'book', 0);  
INSERT INTO rentable VALUES ('5555559', '5555551', 'The Book vol. 2', '121212121212122', 'good', 'Horror', 'book', 0);  
  
  
INSERT INTO rental Values(5555556, NOW(), NOW() + INTERVAL 1 DAY, 'U000000', 1);  
INSERT INTO rental Values(4444448, NOW() - INTERVAL 4 DAY, NOW(), 'U000000', 3);  
INSERT INTO rental Values(3333339, NOW() + INTERVAL 2 DAY, NOW() + INTERVAL 1 WEEK, 'U000000', 0);  
INSERT INTO rental Values(1111118, NOW(), NOW() + INTERVAL 5 DAY, 'U000000', 1);  
INSERT INTO rental Values(2222229, NOW() - INTERVAL 1 WEEK, NOW() + INTERVAL 3 DAY, 'U000000', 1);