1. Create table

create table books

(

book\_id int not null primary key,

book\_title char(100) not null,

book\_author char(30) not null,

book\_ISBN char(20) not null,

book\_publisher char(45) not null,

book\_year\_of\_publish int not null,

book\_edition nvarchar(15),

book\_volume nvarchar(10),

book\_qty int not null,

book\_short\_desc char(100) not null,

book\_location nvarchar(25) not null,

book\_is\_active bit default 1

);

1. Insert/Add new user

insert into users (library\_barcode,full\_name,address,contact\_no,email\_id,payment,user\_name,password,user\_role\_id)

values

('123456','Kishan Patel','999 Summit Ave NY 10175','+201-273-6890','kishan@nyit.edu','4548 4582 4582 4569 53','kpatel','kp123','1');

1. Update user

update users

set contact\_no = '+201-277-6890'

where library\_id = 7

1. Add new media(book)

insert into [dbo].[books] values

('Concept of Prog lang','Robert W. Sebesta','978-93-325-1887-2','Pearson Education Inc','2015','2nd','1','5','Programminfg language evolution and OOPs concepts','F2/CS/S4',1)

1. Add new reading rooms

insert into reading\_rooms

(room\_name,room\_location)

values

('F101','first floor - RoomNo-F101'),

('F102','first floor - RoomNo-F102'),

('S101','second floor - RoomNo-S101'),

('T101','third floor - RoomNo-T101'),

('T102','third floor - RoomNo-T102');

Room reservation for 2 hours

INSERT INTO room\_reservation

VALUES(GETDATE(), DATEADD(hh, 2, GETDATE()),1,1)

Report - Search for any room,room reservation end tine and reserved by user

select rr.room\_reservation\_end\_datetime,r.room\_name,u.full\_name

from room\_reservation rr,reading\_rooms r,users u

where rr.room\_id = r.room\_id and

rr.room\_reservation\_id = u.user\_library\_id

renew room

update room\_reservation

set room\_reservation\_start\_datetime = room\_reservation\_end\_datetime ,room\_reservation\_end\_datetime = DATEADD(hh, 2, room\_reservation\_end\_datetime);

Stored procedure for unique user

CREATE PROCEDURE print\_unique\_user\_entry

-- Add the parameters for the stored procedure here

@print\_user\_id int,

@print\_pages int,

@print\_charges decimal

AS

BEGIN

IF NOT EXISTS (SELECT \* FROM prints

WHERE print\_user\_id = @print\_user\_id)

BEGIN

INSERT INTO prints (print\_pages, print\_charges, print\_user\_id)

VALUES (@print\_pages, @print\_charges,@print\_user\_id)

END

IF EXISTS (SELECT \* FROM prints

WHERE print\_user\_id = @print\_user\_id)

BEGIN

update prints set print\_pages = @print\_pages

END

END

GO

* Damage media

UPDATE BOOKS set book\_is\_active = 0

where book\_barcode = 'B0005'

book search

book bar code

select \* from books

where book\_is\_active = 1 and book\_barcode = 'B0001'

author and book title

select \* from books

where book\_is\_active = 1 and book\_title like 'con%' and book\_author IN ('Robert W. Sebesta','danial%')

author,book title and book barcode

select \* from books

where book\_is\_active = 1 and book\_title like 'con%' and book\_author IN ('Robert W. Sebesta','danial') and book\_barcode = 'B0001'

checkout book and make book not in quantity

insert into checkout(chk\_date,chk\_exp\_rtn\_dt,chk\_rtn\_dt,chk\_user\_id,chk\_fees,book\_barcode,video\_barcode,device\_barcode,journals\_barcode)

values (GETDATE(),DATEADD(dd, 20, GETDATE()),'',2,0.00,1,NULL ,NULL ,NULL);

update books set book\_is\_active = 0 where book\_id = 2

update checkout set chk\_rtn\_dt = '2017-06-20' , [chk\_no\_of\_days] = DATEDIFF(day,chk\_date,chk\_rtn\_dt),chk\_fees = [chk\_no\_of\_days] \* 1.00

where checkout.

update books set book\_is\_active = 1 where book\_id = 3

fee report

select \* from checkout where chk\_no\_of\_days > 1

book fine report and over due media report

select u.full\_name,b.book\_title ,c.chk\_fees as book\_fine,

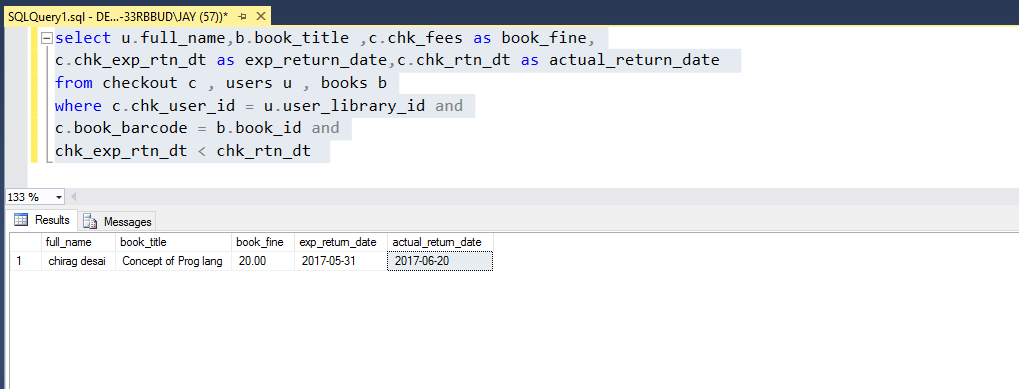
c.chk\_exp\_rtn\_dt as exp\_return\_date,c.chk\_rtn\_dt as actual\_return\_date

from checkout c , users u , books b

where c.chk\_user\_id = u.user\_library\_id and

c.book\_barcode = b.book\_id and

chk\_exp\_rtn\_dt < chk\_rtn\_dt

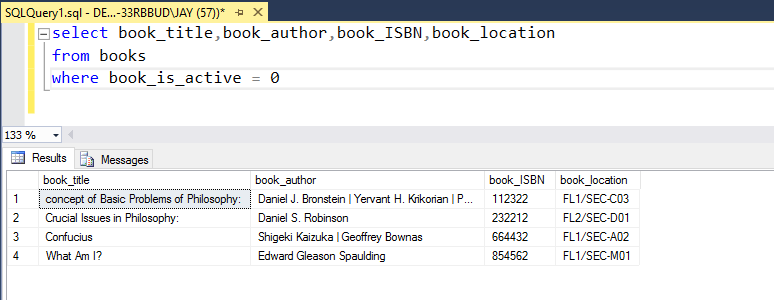


Media damage report

select book\_title,book\_author,book\_ISBN,book\_location

from books

where book\_is\_active = 0



Function for barcode generate

USE [library\_management]

GO

/\*\*\*\*\*\* Object: UserDefinedFunction [dbo].[device\_barcode] Script Date: 5/12/2017 10:30:02 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

-- =============================================

-- Author: <Author,,Name>

-- Create date: <Create Date,,>

-- Description: <Description,,>

-- =============================================

IN this Function this will generate barcode like D00001 for devices ,for books B00001,

for videos V00001 and for journals J00001

ALTER function [dbo].[device\_barcode] (@id int)

returns char(5)

as

begin

return 'D' + right('0000' + convert(varchar(10), @id), 4) //

end