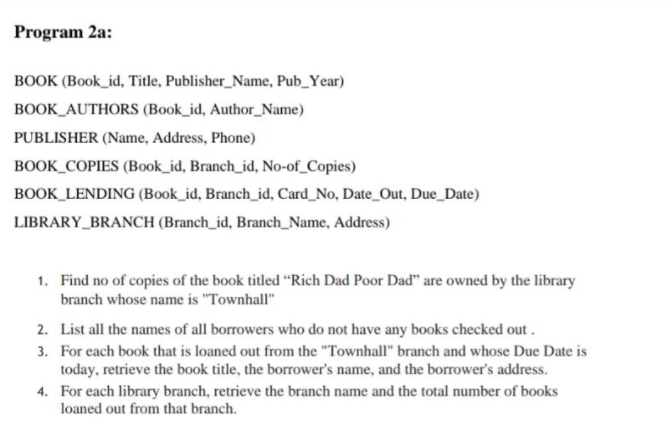
Ashwini

1BM20CS402

CSE-4A



CREATE DATABASE BOOK\_DATABASE9;

USE BOOK\_DATABASE9;

CREATE TABLE PUBLISHER

(

Name varchar(50) primary key,

Phone\_no bigint,

Address varchar(100)

);

CREATE TABLE BOOK

(

Book\_id int primary key,

Title varchar(50),

Publisher\_Name varchar(50),

Foreign Key(Publisher\_Name) references PUBLISHER(Name)

);

CREATE TABLE BOOK\_AUTHORS

(

Author\_name varchar(50) primary key,

Book\_id int,

Foreign Key(Book\_id) references BOOK(Book\_id)

);

CREATE TABLE LIBRARY\_BRANCH

(

Branch\_id int primary key,

Address varchar(50),

Branch\_name varchar(50)

);

CREATE TABLE BOOK\_COPIES

(

Book\_id int,

Branch\_id int,

No\_of\_Copies int,

Foreign Key(Book\_id) references BOOK(Book\_id),

Foreign Key(Branch\_id) references LIBRARY\_BRANCH(Branch\_id)

);

CREATE TABLE BORROWER

(

Card\_no int primary key,

Name varchar(50),

Address varchar(50),

Phone bigint

);

CREATE TABLE BOOK\_LENDING

(

Book\_id int,

Branch\_id int,

Card\_no int,

Date\_out date,

Due\_date date,

Foreign Key(Book\_id) references BOOK(Book\_id),

Foreign Key(Branch\_id) references LIBRARY\_BRANCH(Branch\_id),

Foreign Key(Card\_no) references BORROWER(Card\_no)

);

insert into PUBLISHER

values ("MCGRAW-HILL",9989076587,"BANGALORE"),("PEARSON",9889076565,"NEWDELHI"),

("RANDOM HOUSE",7455679345,"HYDERABAD"),("HACHETTE LIVRE",8970862340,"CHENAI"),

("GRUPO PLANETA",77566120238,"BANGALORE");

select \* from PUBLISHER;

insert into BOOK

values (1,"DBMS","MCGRAW-HILL"),(2,"ADBMS","MCGRAW-HILL"),

(3,"CN","PEARSON"),(4,"CG","GRUPO PLANETA"),

(5,"OS","PEARSON");

select \* from BOOK;

insert into BOOK\_AUTHORS

values ("NAVATHE",1),("TANENBAUM",3),("EDWARD ANGEL",4),("GALVIN",5);

select \* from BOOK\_AUTHORS;

insert into LIBRARY\_BRANCH

values (10,"BANGALORE","RR NAGAR"),(11,"BANGALORE","RNSIT"),(12,"BANGALORE","RAJAJI NAGAR"),

(13,"MANGALORE","NITTE"),(14,"UDUPI","NANIPAL");

select \* from LIBRARY\_BRANCH;

insert into BOOK\_COPIES

values (1,10,10),(1,11,5),(2,12,2),(2,13,5),(3,14,7),(5,10,1),(4,11,3);

select \* from BOOK\_COPIES;

insert into BORROWER

values(101,"Ashwini","BANGALORE",1234567890),(102,"Ambika","BANGALORE",1234567891),

(103,"Nagraj","BANGALORE",1234567892),(104,"Ujwala","BANGALORE",1234567893);

select \* from BORROWER;

insert into BOOK\_LENDING

values('2017-01-01','2017-06-01', 1, 10, 101);

('2017-01-01','2017-03-11', 3, 14, 101),

('2017-02-21','2017-04-21', 2, 13, 101),

('2017-03-15','2017-07-15', 4, 11, 101),

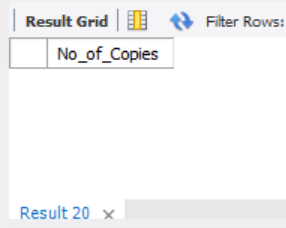
('2017-04-12','2017-05-12', 1, 11, 104);

select \* from BOOK\_LENDING;

select No\_of\_Copies

from ((BOOK join BOOK\_COPIES) join LIBRARY\_BRANCH)

where Title="Rich Dad Poor Dad" AND Branch\_name="Townhall";



//No values are displayed because there is no title called “Rich Dad Poor Dad”//

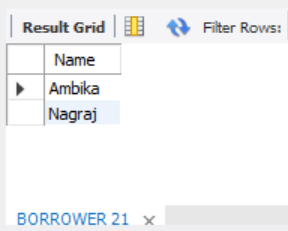
select Name

from BORROWER B

where not exists (select \*

from BOOK\_LENDING L

where B.Card\_no=L.Card\_no);

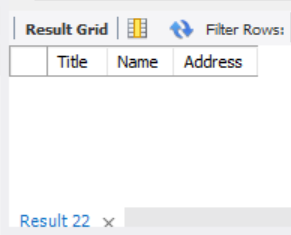


select B.Title,R.Name,R.Address

from Book B,BORROWER R,BOOK\_LENDING BL,LIBRARY\_BRANCH LB

where LB.Branch\_name="Townhall" and LB.Branch\_id=BL.Branch\_id and

BL.Due\_date="2017-05-12" and BL.Card\_no=R.Card\_no and BL.Book\_id=B.Book\_id;



//No values are displayed because there is no branch in “Townhall”//

select L.Branch\_name,count(\*)

from BOOK\_LENDING B,LIBRARY\_BRANCH L

where B.Branch\_id=L.Branch\_id

group by L.Branch\_name;

