create table BOOK

(Book\_id int primary key auto\_increment,

Title varchar(15),

Publisher\_name varchar(15));

create table BOOK\_AUTHORS

(Book\_id int,

Author\_name varchar(15),

constraint a primary key (Book\_id,Author\_name));

create table PUBLISHER

(Name varchar(30) primary key,

Address varchar(30),

Phone varchar(15));

create table BOOK\_COPIES

(Book\_id int,

Branch\_id int,

No\_of\_copies int,

constraint b primary key(Book\_id,Branch\_id));

create table BOOK\_LOANS

(Book\_id int,

Branch\_id int,

Card\_no int,

Date\_out date,

Due\_date date,

Return\_date date,

constraint c primary key(Book\_id,Branch\_id,Card\_no));

create table LIBRARY\_BRANCH

(Branch\_id int primary key,

Branch\_name varchar(15),

Address varchar(15)

);

create table BORROWER

(Card\_no int primary key,

Name varchar(15),

Address varchar(15),

Phone int);

alter table BOOK\_AUTHORS add foreign key (Book\_id)

references BOOK(Book\_id) ON DELETE CASCADE;

alter table BOOK add foreign key (Publisher\_name)

references PUBLISHER(Name) ON DELETE SET NULL;

alter table BOOK\_COPIES add foreign key (Book\_id)

references BOOK(Book\_id) ON DELETE CASCADE;

alter table BOOK\_COPIES add foreign key (Branch\_id)

references LIBRARY\_BRANCH(Branch\_id) ON DELETE CASCADE;

alter table BOOK\_LOANS add foreign key (Book\_id)

references BOOK(Book\_id) ON DELETE CASCADE;

alter table BOOK\_LOANS add foreign key (Branch\_id)

references LIBRARY\_BRANCH(Branch\_id) ON DELETE CASCADE;

alter table BOOK\_LOANS add foreign key (Card\_no)

references BORROWER(Card\_no) ON DELETE CASCADE;