**CREATE DATABASE** biblioteca;  
**USE** biblioteca;  
  
**CREATE TABLE** autor  
(  
 id\_autor **INTEGER AUTO\_INCREMENT PRIMARY KEY NOT NULL**,  
 **name VARCHAR**(100),  
 nacionality **VARCHAR**(50)  
);  
  
**CREATE TABLE** book  
(  
 id\_book **INTEGER AUTO\_INCREMENT PRIMARY KEY NOT NULL**,  
 codigo **VARCHAR**(25) **NOT NULL**,  
 isbn **VARCHAR**(50),  
 title **VARCHAR**(100),  
 editorial **VARCHAR**(50),  
 pages **INTEGER**,  
 id\_autor **INTEGER**,  
 **FOREIGN KEY** (id\_autor) **REFERENCES** autor (id\_autor)  
);  
  
**CREATE TABLE** category  
(  
 id\_cat **INTEGER AUTO\_INCREMENT PRIMARY KEY NOT NULL**,  
 type **VARCHAR**(50),  
 id\_book **INTEGER**,  
 **FOREIGN KEY** (id\_book) **REFERENCES** book (id\_book)  
);  
  
**CREATE TABLE** users  
(  
 id\_user **INTEGER AUTO\_INCREMENT PRIMARY KEY NOT NULL**,  
 ci **VARCHAR**(15) **NOT NULL**,  
 fullname **VARCHAR**(100),  
 lastname **VARCHAR**(100),  
 address **VARCHAR**(150),  
 phone **INTEGER**);  
  
**CREATE TABLE** prestamos  
(  
 id\_prestamo **INTEGER AUTO\_INCREMENT PRIMARY KEY NOT NULL**,  
 id\_book **INTEGER**,  
 id\_user **INTEGER**,  
 fec\_prestamo **DATE**,  
 fec\_devolucion **DATE**,  
 **FOREIGN KEY** (id\_book) **REFERENCES** book (id\_book),  
 **FOREIGN KEY** (id\_user) **REFERENCES** users (id\_user)  
);  
  
**INSERT INTO** autor (**name**, nacionality)  
**VALUES** ('autor\_name\_1', 'Bolivia'),  
 ('autor\_name\_2', 'Argentina'),  
 ('autor\_name\_3', 'Mexico'),  
 ('autor\_name\_4', 'Paraguay');  
  
**INSERT INTO** book (codigo, isbn, title, editorial, pages, id\_autor)  
**VALUES** ('codigo\_book\_1', 'isbn\_1', 'title\_book\_1', 'NOVA', 30, 1),  
 ('codigo\_book\_2', 'isbn\_2', 'title\_book\_2', 'NOVA II', 25, 1),  
 ('codigo\_book\_3', 'isbn\_3', 'title\_book\_3', 'NUEVA SENDA', 55, 2),  
 ('codigo\_book\_4', 'isbn\_4', 'title\_book\_4', 'IBRANI', 100, 3),  
 ('codigo\_book\_5', 'isbn\_5', 'title\_book\_5', 'IBRANI', 200, 4),  
 ('codigo\_book\_6', 'isbn\_6', 'title\_book\_6', 'IBRANI', 85, 4);  
  
**INSERT INTO** category (type, id\_book)  
**VALUES** ('HISTORIA', 1),  
 ('HISTORIA', 2),  
 ('COMEDIA', 3),  
 ('MANGA', 4),  
 ('MANGA', 5),  
 ('MANGA', 6);  
  
**INSERT INTO** users (ci, fullname, lastname, address, phone)  
**VALUES** ('111 cbba', 'user\_1', 'lastanme\_1', 'address\_1', 111),  
 ('222 cbba', 'user\_2', 'lastanme\_2', 'address\_2', 222),  
 ('333 cbba', 'user\_3', 'lastanme\_3', 'address\_3', 333),  
 ('444 lp', 'user\_4', 'lastanme\_4', 'address\_4', 444),  
 ('555 lp', 'user\_5', 'lastanme\_5', 'address\_5', 555),  
 ('666 sc', 'user\_6', 'lastanme\_6', 'address\_6', 666),  
 ('777 sc', 'user\_7', 'lastanme\_7', 'address\_7', 777),  
 ('888 or', 'user\_8', 'lastanme\_8', 'address\_8', 888);  
  
**INSERT INTO** prestamos (id\_book, id\_user, fec\_prestamo, fec\_devolucion)  
**VALUES** (1, 1, '2017-10-20', '2017-10-25'),  
 (2, 2, '2017-11-20', '2017-11-22'),  
 (3, 3, '2018-10-22', '2018-10-27'),  
 (4, 3, '2018-11-15', '2017-11-20'),  
 (5, 4, '2018-12-20', '2018-12-25'),  
 (6, 5, '2019-10-16', '2019-10-18');  
  
  
**select** persona.fullname, persona. ci, b.title  
 **from** users **as** persona, book **as** b, category **as** ca  
**where** ca.type ='COMEDIA';  
  
#-------------Consulta---------------------------------  
  
**select distinct** u.fullname **as** NombreCompleto, u.ci **as** CI\_USER, b2.title **as** LIBRO\_PRESTADO  
**from** users, book , category , prestamos, autor **as** a  
  
 **inner join** book b2 **on** a.id\_autor = b2.id\_autor  
 **inner join** category c2 **on** b2.id\_book = c2.id\_book  
 **inner join** prestamos p2 **on** b2.id\_book = p2.id\_book  
 **inner join** users u **on** p2.id\_user = u.id\_user  
  
 **where** c2.type = 'COMEDIA' **or** c2.type='MANGA';  
  
#----------------funciones-------------------------------  
  
**create function** *usersIBRANIAnd90*( editorialBook **TEXT**, paginas **INT** ) **RETURNS INTEGER  
begin  
 declare** editorial **integer default** 0;  
  
 **select** *count*(b.pages) **into** editorial  
 **from** book **as** b  
 **where** b.pages >= paginas **and** b.editorial = editorialBook;  
  
 **return** editorial;  
  
**end**;  
  
**select** *usersIBRANIAnd90* ('IBRANI',90) **as** CANTIDAD\_DE\_LIBROS;  
  
#-------------------Funciones 3-------------------------------  
  
**create function** *pares\_impares*( cantidad **integer**) **returns integer  
begin  
  
 declare** descripcion **text**;  
 **if** cantidad % 2= 0  
 **then  
 set** descripcion = *concat*('EDITORIAL:','IBRANI','CATEGORIA:'  
 ,'MANGA', cantidad );  
 **else  
  
 set** descripcion = *concat*('EDITORIAL:','IBRANI','CATEGORIA:','MANGA', cantidad );  
  
 **end if**;  
  
 **return** descripcion;  
  
 **end** ;  
  
  
#-----------------funciones 4--------------------------------  
  
**create function** *delateModifInsert*( accion **text**, id **text**, nombre **text**, nacionalidad **text**) **returns text  
begin  
  
 declare** acciones **text**;  
  
 **if** accion = 'delete'  
 **then  
 set** acciones = 'registro borrado';  
 **else if** accion = 'insert'  
 **then  
 set** acciones = 'registro agregado';  
  
 **else if** accion = 'modificar'  
 **then  
 set update** estudiantes **set** edad = nuevaedad **where** id\_est = idest; acciones ='registro modificadi';  
 **else  
 set** acciones ='error no es valido';  
 **end if**;  
 **end if**;  
 **end if**;  
  
  
 **return** acciones;  
  
  
  
**end**;  
  
#-----------------funcion 5-------------------------------------  
  
  
**create function** *librosPrestados*() **RETURNS INTEGER  
begin  
 declare** cantidad **integer default** 0;  
  
 **select DISTINCT** *count*( pres.id\_prestamo) **into** cantidad  
 **from** prestamos **as** pres  
 **where** pres.fec\_prestamo > '2018-01-01' **and** pres.fec\_prestamo < '2019-01-01';  
  
 **return** cantidad;  
  
  
**end**;  
**DROP FUNCTION** *librosPrestados*;  
  
**select** *librosPrestados*() **as** CANTIDAD\_DE\_LIBROS\_PRESTADOS;