EXERCISE 2

1. The following are maintained by a book dealer.

AUTHOR(author_id:int , name:string , city:string , country:string)

PUBLISHER(publisher_id:int , name:string , city:string , country:string)

CATALOG(book_id:int , title:string , author_id:int , publisher_id:int , category_id:int , year:int , price:int)

CATEGORY(category_id:int , description:string)

ORDER_DETAILS(order_no:int , book_id:int , quantity:int)

i) Create the above tables by properly specifying the primary keys.

ii) Enter at least five tuples for each relation.

iii) Find the total number of authors present in author relation.

iv) Find the book which has maximum sale.

2. Consider the following table "Book":

Acc-no	Yr_pub	title
734216	1982	Algorithm design
237235	1995	Database systems
631523	1992	Compiler design
543211	1991	programming
376112	1992	Machine design

i) Select from the relation "Book" all the books whose year of publication is 1992.

ii) Select from the relation "Book" all the books whose Acc-no is greater than equal to 56782.

iii) List all the Title and Acc-no of the "Book" relation.

iv) Using 'Rename operator' to rename the 'Acc-no' and 'Yr_pub' into a 'SERIAL NO' and

'YEAR' in the ''Book'' relation.

3. branch (branch_name, branch_city, assets)

customer (customer_name, customer_street, customer_city)

account (account_number, branch_name, balance)

loan (loan_number, branch_name, amount)

depositor (customer_name, account_number)

borrower (customer_name, loan_number)

i) Create the above tables by properly specifying the primary keys.

ii) Enter at least five tuples for each relation.

iii) Find all loans of over 12000rs.

iv)display the branch names for a given city.

v) display depositor name for a specific account number.

vi) display customer names whose names starts with specified character.