

National School of Business Management
CS105.3 - Database Management Systems
1st year 1st semester Practical Test – 1

Instructions

- Time Duration: 1.30 h
- Answer All the Questions.
- Submit as a word document and include your name and degree.
- Save the word document with your index number.
- Take screenshots of all the tables which you have created in access and paste them in word document.
- The database creation should clearly visible so don't crop the screenshots.
- Write all the queries in the word document and take screenshots of result tables and attach them to word document.

Question 01.

- I. Create the following database in Microsoft Access. (4 Marks)

Database: LibraryDB

- II. Create the following tables in LibraryDB by identifying the primary key and foreign key. (12 Marks)

Table Name: Book

BookID	Title	Edition	Publisher	Published_Date	AuthorID
1001	To Kill a MockingBird	2	Simon	1991	100
1002	The Elephant Tree	3	Hill Education	1997	100
1003	Me Talk Pretty One Day	2	Pearson Education	1889	300
1004	The Village on The Town	4	Scholastic	1993	400
1005	I am America	1	Springer Nature	1996	400

Table Name: Author

AuthorID	AuthorName	Country
100	William	England
200	William Faulkner	Poland
300	Henry James	Switzerland
400	Jane Austen	Australia
500	Fyodor Dostoevsky	England

Table Name: Student

StudentID	Sname	BorrowDate	BookID	ReturnDate
101	John	13/11/2020	1001	13/01/2021
102	William	14/11/2020	1001	14/01/2021
103	Amanda	19/10/2020	1003	19/12/2020
104	Sherill	03/10/2020	1002	03/12/2020
105	James	19/09/2020	1004	19/11/2020

- III. Identify the foreign keys and create the relationship between the tables. (4 Marks)

IV. Write the queries for the followings and generate the result set tables. (30 Marks)

A. σ Edition = '2' (Book)

B. σ BookID='1001' (Student)

C. Π Edition, Publisher (Book)

D. Π BorrowDate, ReturnDate (σ StudentID=104 (Student))

E. Display the details of Books with the details of the Author who have written each book

F. Display book title, edition, publisher and the author of each book.

G. Display the details of the all the book with the author who have written the book.

H. Display the all the details of the students with the details of the book which they have borrowed.