

**Ahsanullah University of Science and Technology (AUST)**

Department of Computer Science and Engineering

**Offline 1**

Course No.: CSE4126

Course Title: Distributed Database Systems Lab

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**Submitted To-**

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B

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**Question 1: Create the four tables and insert necessary data in the tables using SQL commands**

**(Necessary data can be within 5 to 10 rows).**

**Solution:**

*-- precautionary drop statement to run properly on any machine*

drop table Student;

drop table Borrows;

drop table Book;

drop table Author;

*-- create table statements*

create table Student(studentID number,name varchar2(50),phone varchar2(50),age number);

create table Borrows(studentID number, bookID number, dateBorrowed date);

create table Book(bookID number,authorID number,title varchar2(50), genre varchar2(50));

create table Author(authorID number,name varchar2(50), age number);

*-- insert data into student table*

insert into Student Values(190104065,'Debopriya Deb Roy','01990288897',22);

insert into Student Values(190104070,'Noumi Moyeen','01990288898',23);

insert into Student Values(190104053,'Tanzina Taher','01990288899',22);

insert into Student Values(190104003,'Sonjukta Sweta','01990288890',23);

insert into Student Values(190104083,'Aritra Das','01990288891',24);

*-- insert data into borrows table*

insert into Borrows Values(190104065,101,DATE'2022-04-05');

insert into Borrows Values(190104070,101,DATE'2022-07-06');

insert into Borrows Values(190104053,103,DATE'2022-03-05');

insert into Borrows Values(190104003,104,DATE'2022-09-02');

insert into Borrows Values(190104083,105,DATE'2022-06-06');

insert into Borrows Values(190104003,104,DATE'2022-09-03');

insert into Borrows Values(190104003,104,DATE'2022-09-10');

insert into Borrows Values(190104003,104,DATE'2022-09-11');

insert into Borrows Values(190104003,104,DATE'2022-09-12');

*-- insert data into book table*

insert into Book Values(101,1011,'Gulliver’s Travels','Fiction');

insert into Book Values(202,1012,' Chokher Bali','Fiction');

insert into Book Values(103,1013,'After Kurukshetra','Non Fiction');

insert into Book Values(104,1014,'Geetanjali','Literature');

insert into Book Values(105,1015,' Jagori: The Vigil','Non Fiction');

*-- insert data into author table*

insert into Author Values(1011,'Dr. Jonathon',68);

insert into Author Values(1012,'Rabindranath Tagore',55);

insert into Author Values(1013,'Mahasweta Devi',89);

insert into Author Values(1014,'Rabidranath Tagore',110);

insert into Author Values(1015,'Satinath Bhaduri',69);

**Question 2: Write the following queries in SQL –**

**a. Show the name of the students who borrowed the book titled “Gulliver’s Travels”.**

**b. Show the age of the oldest author from among those who have published books belonging to the genre “Non-Fiction”.**

**c. Show the phone of the student who borrowed the book titled “Gitanjali” more than twice.**

**Solution:**

*--Ans to the Ques no 2(a):*

select name from Student inner join Borrows on Student.studentID=Borrows.studentID inner join Book on Borrows.bookID=Book.bookID where title = 'Gulliver’s Travels';

*--Ans to the Ques no 2(b):*

select Max(age) from Author inner join Book on Book.authorID = Author.authorID where genre = 'Non Fiction';

*--Ans to the Ques no 2(c):*

select phone from Student inner join Borrows on Borrows.studentID =Student.studentID inner join Book on Borrows.bookID=Book.bookID where title = 'Geetanjali' group by (phone) having count(Borrows.studentID) > 2;

**Output:**

