

Database Management Systems Lab Assignment-1

Instructions:

1. Each Query consists of one mark.
2. The assignment is of total 10 marks.
3. The duration of the assignment is 1 day.
4. All Questions are compulsory.
5. Naming convention for file: Name your file, which includes screenshots of the database as: Roll.No-Assign1.pdf
6. Do Not Cheat.

1. Create a database having two tables with the specified fields, to computerize a library system of a Delhi University College.

LibraryBooks (Accession number, Title, Author, Department, PurchaseDate, Price)

IssuedBooks (Accession number, Borrower)

- a) Identify primary and foreign keys. Create the tables and insert at least 5 records in each table.
- b) Delete the record of book titled "Database System Concepts".
- c) Change the Department of the book titled "Discrete Maths" to "CS".
- d) List all books that belong to "CS" department.
- e) List all books that belong to "CS" department and are written by author "Navathe".
- f) List all computer (Department = "CS") that have been issued.
- g) List all books which have a price less than 500 or purchased between "01/01/1999" and "01/01/2004".

2. Create a database having three tables to store the details of students of Computer Department in your college, as per the given schema.

Personal information about Student (College roll number, Name of student, Date of birth, Address, Marks (rounded off to whole number) in percentage at 10 + 2, Phone number)

Paper Details (Paper code, Name of the Paper)

Student's Academic and Attendance details (College roll number, Paper code, Attendance, Marks in home examination).

- a) Identify primary and foreign keys. Create the tables and insert at least 5 records in each table.
- b) Design a query that will return the records (from the second table) along with the name of student from the first table, related to students who have more than 75% attendance and more than 60% marks in paper 2.
- c) List all students who live in "Delhi" and have marks greater than 60 in paper 1.