DATABASE MANAGEMENT SYSTEM LAB REPORT

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CLASS : BCSE UG III

SEC : A3

SUBJECT : DBMS

1. In an organization, a number of departments exist. Each department has a name &unique code. Number of employees work in each department. Each employee has a unique employee code. Detailed information like name, address, city, basic, dateof join are also stored. In a leave register for each employee leave records are keptshowing leave type (CL/EL/ML etc.), from-date, to-date. When an employee retiresor resigns then all the leave information pertaining to him are also deleted. Basic salary must be within Rs.5000 to Rs.9000. A department can not be deleted if any employee record refers to it. Valid grades are A/B/C. Employee name must be in uppercase only. Default value for joining date is system date. Design & implement the tables with necessary constraints to support the scenario depicted above.

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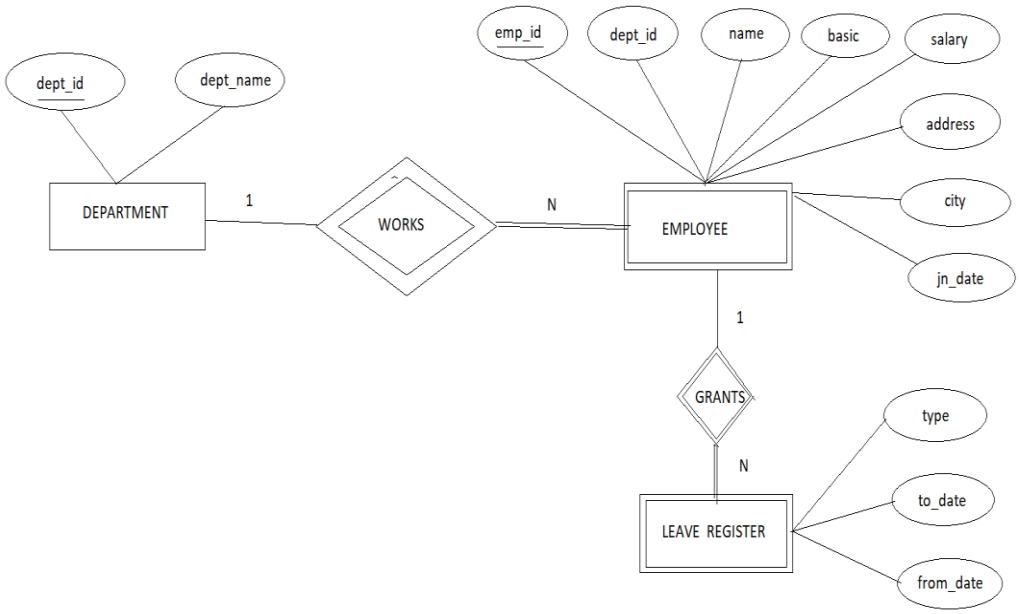
- **ER DIAGRAM**



4. In a library, for each book book-id, serial number (denotes copy number of a book), title, author, publisher and price are stored. Book-id and serial number togetherwill be a unique identifier for a book. Members are either students or faculty. Each member has a unique member-id. Name, e-mail, address are also to be stored. Maximum number of books that a member can retain depends on the member type. There may be other such parameters that depend on member type. Design should be flexible. For any transaction (book issue or return), members are supposed to place transactions slip. Each Transaction will have a unique id. Users will submit member-id, book-id, and serial number (only for book return). Design and create the tables to store the book, member and transaction information. When a book is issued to a member of a field like, To_Be_Returned_By has to be set as DT_Issue + 7 days. At the time of book return, DT_Return will store the actual return date. While a new book arrives, the serial number will be the last serial number for the Book-id +1. System should also keep track of the status of each physical book -- whether issued or available .

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- **ER DIAGRAM**