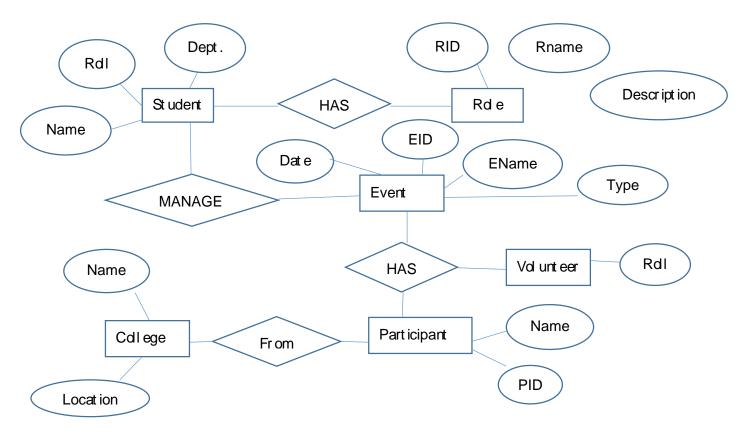
Database Management Systems Lab

Assignment 2: Database Design - SQL

Problem Statement: University Festival Management System

Consider the fdl owing simple ER Diagram of a cdl ege fest ival management system.



- 1. Define a relational schema to capture the above information. The schema should indude table definitions, attribute definitions, and attribute data types.
- 2. Creat et abl es in SQL for the above schema.
- 3. Insert sample records in the tables. At least 5 records should be inserted in each table.
- 4. Write SQL and Relational Algebra Queries for the following:
- (i) RdI number and name of all the students who are managing the "Megaevent"
- (ii) RdI number and name of all the students who are managing "Megevent" as an "Secretary".
- (iii) Name of all the participants from the cdl ege "IITB" in "Megaevent"
- (iv) Name of all the cdl eges who have at least one participant in "Megaevent"
- (v) Name of all the events which is managed by a "Secretary"

- (vi) Name of all the "CSE" department student volunteers of "Megaevent"
- (vii) Name of all the events which has at I east one vd unteer from "CSE"
- (viii) Name of the cdlege with the largest number of participants in "Megaevent"
- (ix) Name of the college with largest number of participant overall
- (ix) Name of the department with the largest number of volunt eers in all the events which has at least one participant from "IITB"

Del iver able:

- (a) Write a report listing all the SQL commands, records inserted and out put of queries.
- (b) A single script fi e with the commands (in sequence) table create, record insert, squeries in listed order. The fi e extension should be .sq

Submission Det all s:

Individual submission within a dead ine of January 28, 2024, midnight.

The SQL queries will have to be executed from pgsd in your terminal in the next lab.