

# Department Of Computer Applications

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## Assignment I COMPUTER APPLICATIONS \_ DBMS (CAP422J1)

Q1. Centralized and Client/Server Architecture for DBMS

Q2. Relational Model Constraints.

Q3. Design an ER Diagram for an Alumni Management System using Draw.io. Your task involves incorporating the following elements into your design:

- **Entities:** Include both strong and weak entities, clearly outlining entity sets and their attributes. Ensure a comprehensive coverage of attribute types, such as simple, composite, single-valued, multi-valued, domain, and derived attributes.
  - **Relationships:** Model relationships between entities, considering one-to-one, one-to-many, and many-to-many relationships. Provide clear visual and textual representations of these relationships.
  - **Keys:** outline primary, super, candidate, and alternate keys within your diagram to establish the uniqueness of entities and relationships.
  - **Degree of Relationship:** Demonstrate the degree of relationships, distinguishing between binary relationships and higher-degree relationships.
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## Instructions

Assignment submissions must strictly adhere to the below mentioned instructions, and failure to comply will result in a grade of 0 for the assignment.

- a). You must ensure your assignment adheres to proper standards by including your name, batch, registration number, semester, subject, and the name of the professor.
- b). **Plagiarism will not be tolerated. Assignment contains 10 marks so in case if any sort of plagiarism is found the assignment will be graded with 0 marks.**
- c). **Do not share assignments with any of your classmates/friends. If a copy case is found, both will get zero.**
- c). **The use of any AI tool is strictly prohibited. Any assignment found to contain AI-generated content will be graded with 0.**
- d). Last date of submission: 06-May-2023, Assignment submissions after the deadline will not be entertained.
- e). The first two questions must be written on A4 paper, and the third question must be printed on a separate sheet and must be attached to your assignment booklet.
- f). **Following the submission of the assignment, a viva voce examination will be held. Students failing to appear for the viva voce will receive a grade of 0 for the assignment. The grades (marks) for the assignment will be determined by its quality and performance in the viva voce examination.**