CSE 5330 PROJECT 1

<u> Part -2</u>

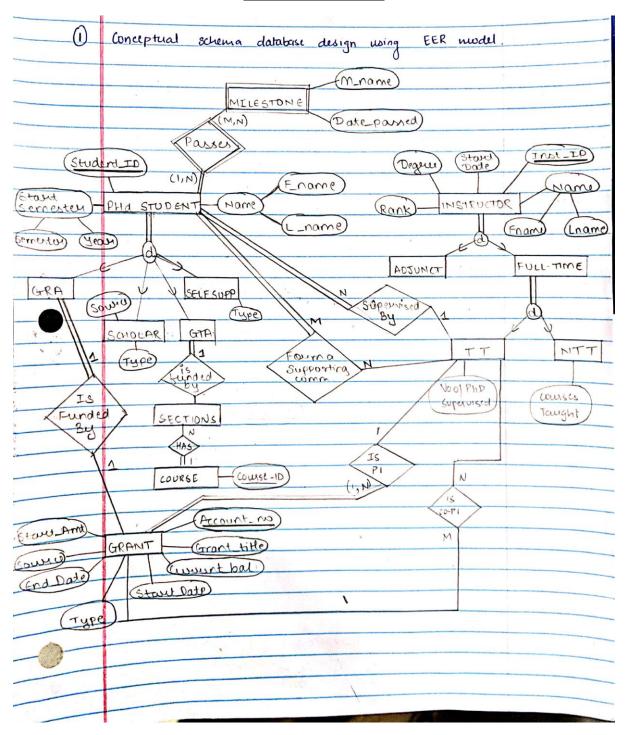
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Description

- PhD_STUDENT, INSTRUCTOR, GRANT, MILESTONE, COURSE and SECTIONS are the primary entities with their respective attributes.
- PhD_STUDENT is a super-class which is divided into GRA, SCHOLAR, GTA and SELF_SUPP with disjoint constraints.
- Funding for GRA is a 1-1 relation with GRANT. Funding for GTA is a 1-1 relation with COURSE which has 1-N SECTIONS.
- We have added Course_ID as a primary attribute for COURSE in order to keep track of the COURSE and the SECTIONS wrt their relationship with GTA.
- INSTRUCTOR is a super-class which is divided into ADJUNCT and FULL-TIME with the disjoint constraint. The FULL-TIME entity is further divided into TT(Tenure track) and NTT(Non Tenure Track).
 Every PhD_STUDENT is supervised by 1 TT INSTRUCTOR which is shown by N-1 relation.
 Every PhD_STUDENT forms a supervising committee of TT INSTRUCTOR which is shown by M-N relation.
- Every PhD_STUDENT passes multiple MILESTONE (weak entity) which is represented by a min-max relationship.
- Each grant has 1 PI which is a Tenure Track Instructor and may have 1 or more Co-PI which are also Tenure Track Instructors.

EER Diagram



Relational Schema – Tabular Form

