<u>CSE 5330 PROJECT 1</u> <u>PART - 1</u>

Project By:

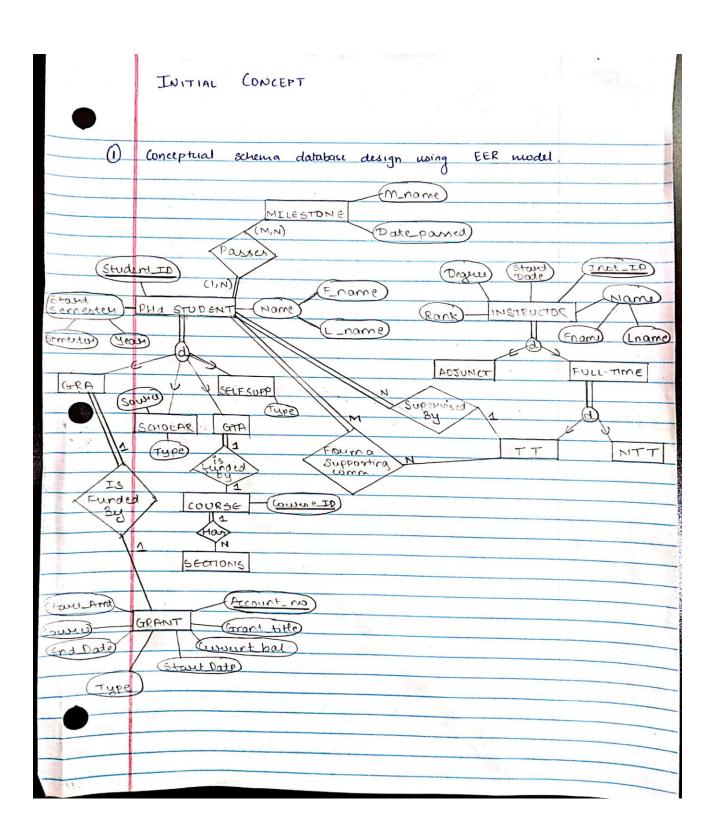
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Description

- 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 <u>Course ID</u> 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 which is represented by a min-max relationship.

EER Diagram



<u>Relational Schema – Tabular Form</u>

	RELATIONAL SCHEMA - TABULAR FORM
St	udent_ID M_name Date Parsed
14.	Phd STUDENT
	udentio Semester year Frame Lname Super_ID
f	
In	NSTRUCTOR
In	10 Finame Liname Stoutbale Degree Rank Adi-Hag
G	RANT
tur	ound-no. Title Conventibal Standoute Enabate Type Source St. Amt
G	RA
₩ <u>₩</u>	udint_10 Grant-10
4	
30	HOLPE
2	maentio Sowie Type
4	
G	TA
ST	udent 10 (ourse_1) Section
4	
	-LF_SUPP
	udent 10 Type
4	
	DLL-TIME
	VIEID IT Flag. NITT Flag
	1
1	MITTEE
	udent-10 Inst-10
1	
	943