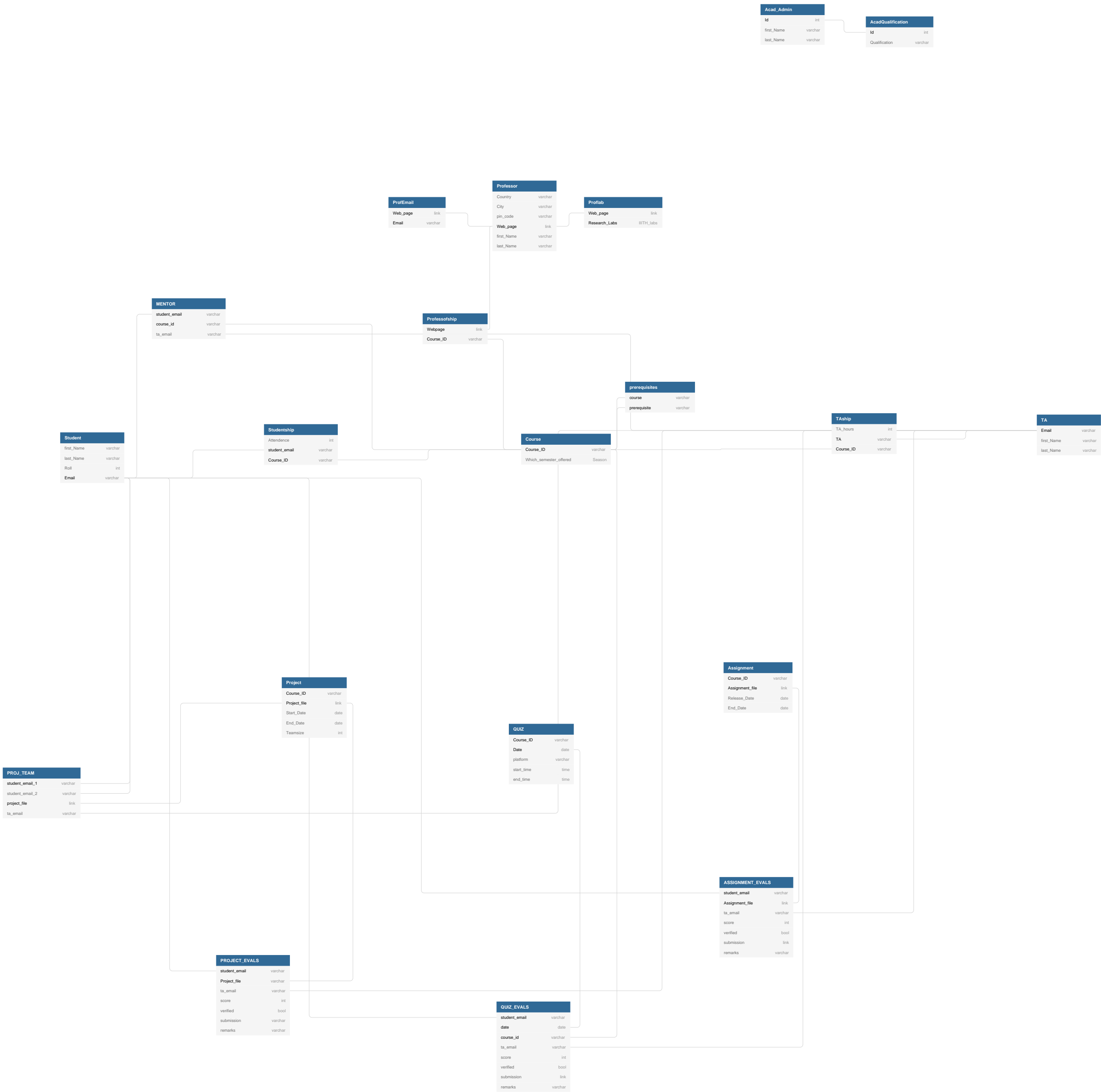


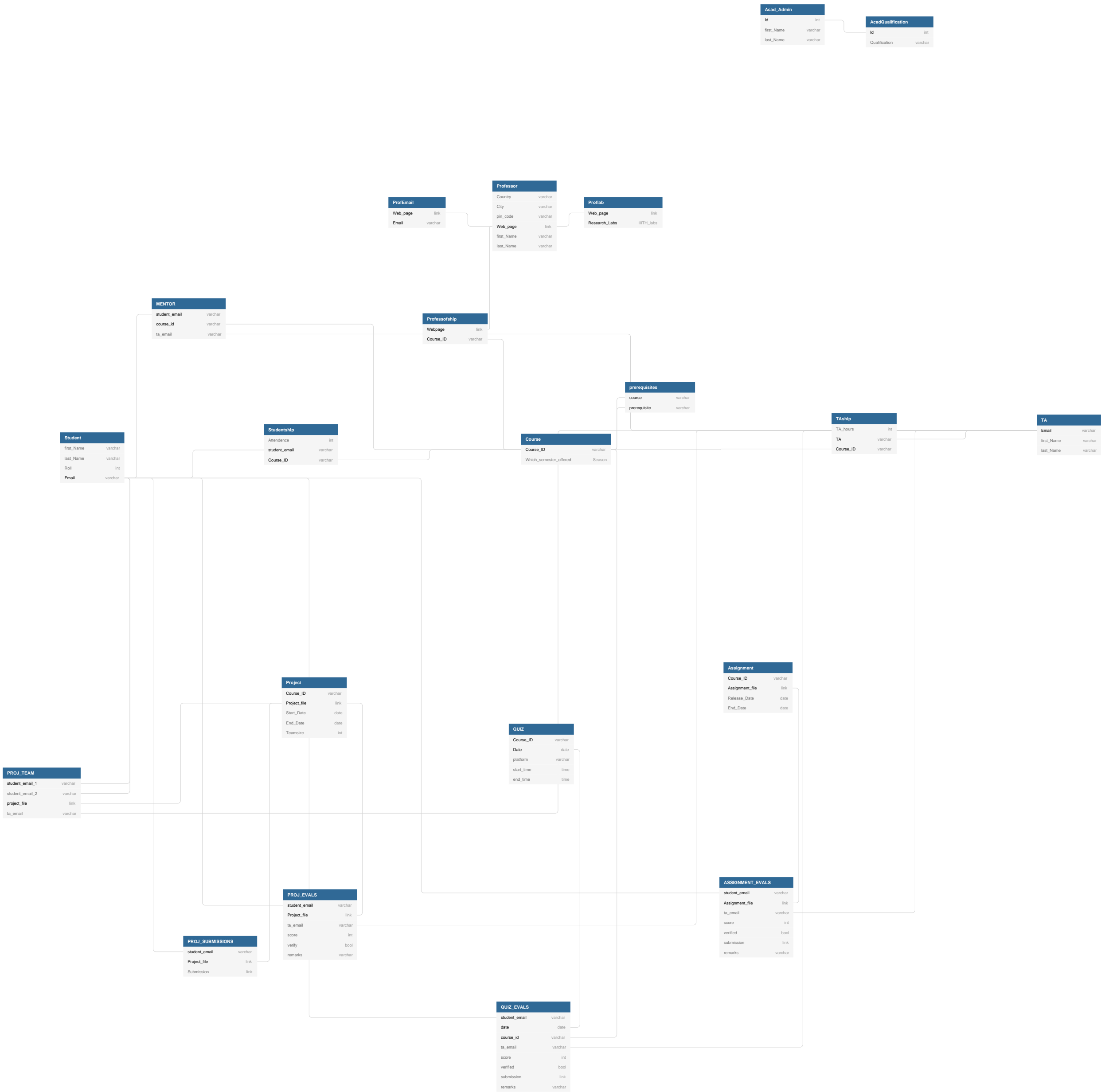
Project Phase 3 (Relational Model)

Data & Applications

By Gryffindors

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Mapping from ER model to Relation model we get a 1NF form. Present in the second page of this pdf file.

Converting 1NF form to 2NF form we get a 3NF form. Present in the third page of this pdf.

Conversion from 1NF to 2NF form.

- We break the relation PROJECT_EVALS into PROJ_SUBMISSIONS and PROJ_EVALS
- PROJ_EVALS = π (PROJECT_EVALS) of all attributes except for *Submissions*
- All non-prime attributes (like score) are fully functional depending on the only candidate key (proj_file, submission) in PROJ_EVALS.
- We observed that score is partially dependent on the candidate key (*submission*, *student_email*). So we separated submission and created a new relation.