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Database Web services

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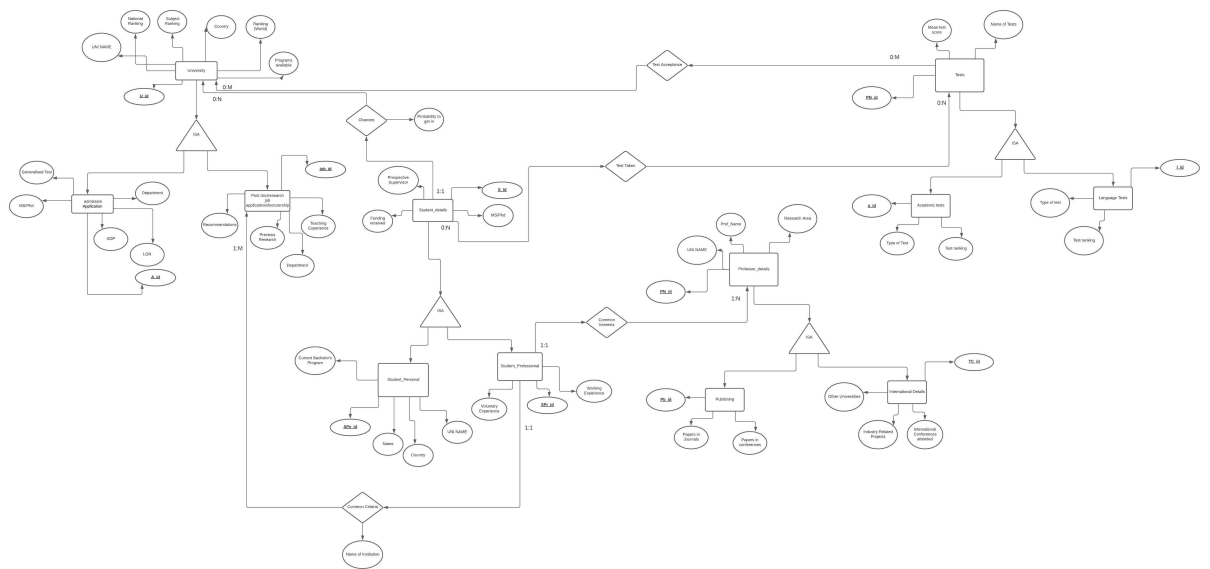


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Abstract

- Working scripts with CREATE TABLE statements
- Mapping approach
- Updated ER document

1 ER diagram



1.1 ER-Diagram explanation

Our ER diagram has mainly 4 tables Universities, Professor_details, Student_details, Tests. Then each of them has two entities which are connected by a ISA hierarchy. Under university we have the admission application and Postdoc/other research positions. Since our targeted audience is undergraduates/graduates who want to go to grad school or seek research positions we have created the two separate applications : one targeting undergraduates/ the admission applications and for graduate/research professionals the postdoc/other research or teaching positions. For every Professor in professor_details there are two different section one is publishing (here we have a record of all the publications and where it was published) and the other one is the international details (international status)of the professor. For a student in Student_details its very self explanatory the personal and professional section. For the tests

section we have the following entities connected by the ISA hierarchy : academic tests and language tests.

2 Mapping Approach

We have used the separate relation per entity set approach.Example -> 3 relations: Students,Students__personal,Students__professional.

- Every student is recorded in the Students
- must delete Student__personal if Student tuple is deleted
- Queried involving all students are easy

We have used this style of implementation because we needed a cascaded styled database for our project.We have used this over other two ways of implementation because of the way our tables are related , for future implementations of query as well as the several joins we will have to make throughout the project.