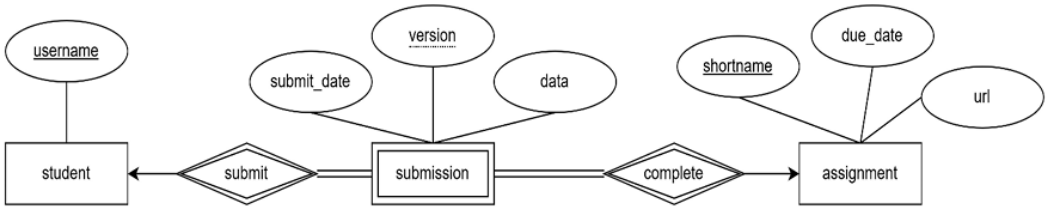
Finals Lab Task 2.

Transforming ER Model to Relational Tables

Given the ER diagram representing student assignment submissions, convert it into MySQL tables. Capture all entities and their attributes, and define the relationships between students, submissions, and assignments. Identify the primary and foreign keys and ensure proper representation of any dependent or weak entities.



In converting the ER diagram, the following are the data types of the attributes:

- `student` table:
  - `username`: String (VARCHAR), up to 50 characters.
- `assignment` table:
  - `shortname`: String (VARCHAR), up to 50 characters.
  - `due_date`: Date, cannot be null.
  - `url`: String (VARCHAR), up to 255 characters, can be null.
- `submission` table:
  - `username`: String (VARCHAR), up to 50 characters.
  - `shortname`: String (VARCHAR), up to 50 characters.
  - `version`: Integer, represents the version of the submission.
  - `submit_date`: Date, cannot be null.
  - `data`: Text.

Note: Create the appropriate table relationship and enforce necessary REFERENTIAL INTEGRITY CONSTRAINTS

Required output per Test Cases: (To be posted in Github)

1. Query statements (Task 1-4 including the table relationship)
2. Table Structure (Task 1- 4 including the table relationship)
3. ER Diagram or Relational schema from phpMyAdmin or Workbench (pdf or jpg file)
4. Sql copy of the database and table structures