

Project Contribution Report

CMPE 321 – Database Systems

Project 3: Chess Tournament Database

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Contributions

In this project, I actively contributed to the implementation of the ChessDB application using SQL and `mysql-connector-python`. My main responsibilities included:

- Designing and writing the SQL database and schemas, including the relations and triggers.
- Using MySQL Connector/Python to connect our app to the SQL database and handle cursor tasks.
- Writing SQL queries and Python cursor logic for the operations requested in the project description.
- Importing example data from Excel with logic that hashes passwords and temporarily bypasses foreign-key and primary-key constraints for the initial load.
- Implementing triggers to enforce constraints such as no match overlaps and arbiter conflicts.

Teamwork

We mainly used Google Meet for collaboration and continually shared our code throughout the project. I focused on:

- Creating the database with the correct relations and attributes, plus the necessary triggers to enforce the constraints.

- Populating the database with the given example data, bypassing the constraints during the load process.

We worked on our own parts and then discussed together how to merge everything into a final product.

Self-Reflection

Through this project, I strengthened my understanding of:

- Creating and managing a complete SQL database.
- Connecting a web app to a MySQL database.
- Validating incoming data to keep the database consistent.