Individual Contribution Report:

CMPE 321 – Database Systems

Project 1: Chess Tournament Database

1. Personal Information:

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- Group Number: 6

2. Tasks & Contributions:

In this project, I was responsible for the following tasks:

Initially, we drew a basic template of an ER. Then, we worked together on draw.io to draw the shapes and represent the ER collaboratively.

Then, I created SQL tables using the Entity sets and relations in the diagram.

I also checked the constraints one by one to see if our database could handle them.

There were some constraints that we couldn't handle using the relational database.

3. Collaboration & Challenges:

We collaborated using whatsapp and google meet.

At first, we both looked at the project to gather some ideas and then we discussed those with each other.

We also used draw.io to collaborative real-time

Challenges included:

A big challenge was to understand the ER diagram symbols used in the lecture and apply that to a new database with different rules.

Another big challenge was to make database hold the given constraints. Some of them were really hard to implement.

Deciding on which entity sets and which relations to use was also a hard task.

4. Self-Assessment

Participating in this project significantly enhanced both my technical and collaborative skills. One of the most valuable aspects was working through the full database development cycle, from conceptual design to SQL implementation. I gained a deeper appreciation for the complexity involved in modeling real-world systems such as tournament scheduling and user-role hierarchies.

From a teamwork perspective, I learned the importance of synchronizing design decisions early to avoid conflicts during the implementation phase.

Key takeaways:

Stronger understanding of ER-to-SQL translation and database normalization

Increased attention to naming consistency, constraint enforcement, and referential integrity

Improved communication when collaborating on a shared technical structure