

# **Major League Baseball Management System**

## **P3. Final ERD**

### **DAMG6210 – Database Management & Database Design**

**Fall 2023**

**Group -17**

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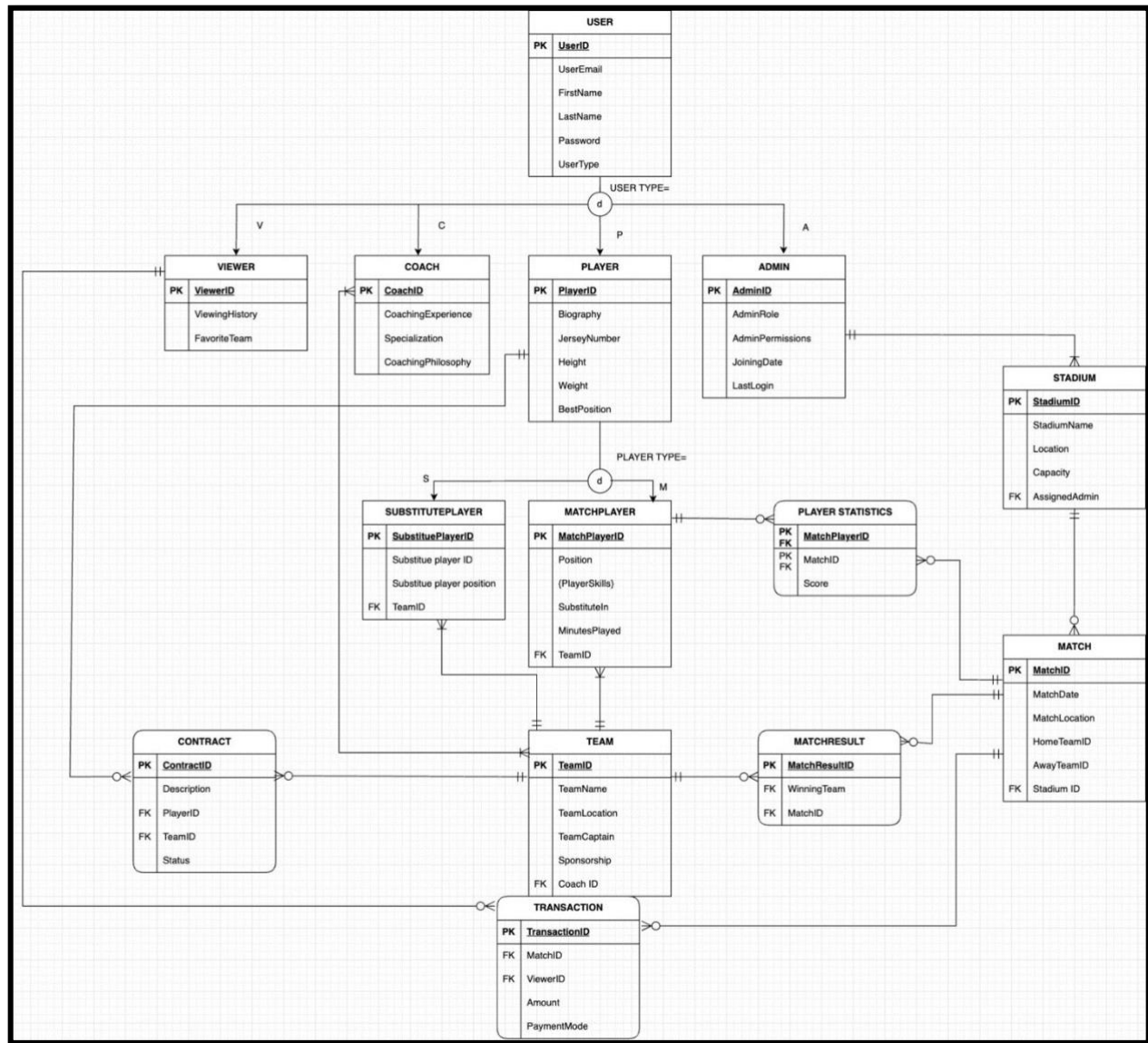
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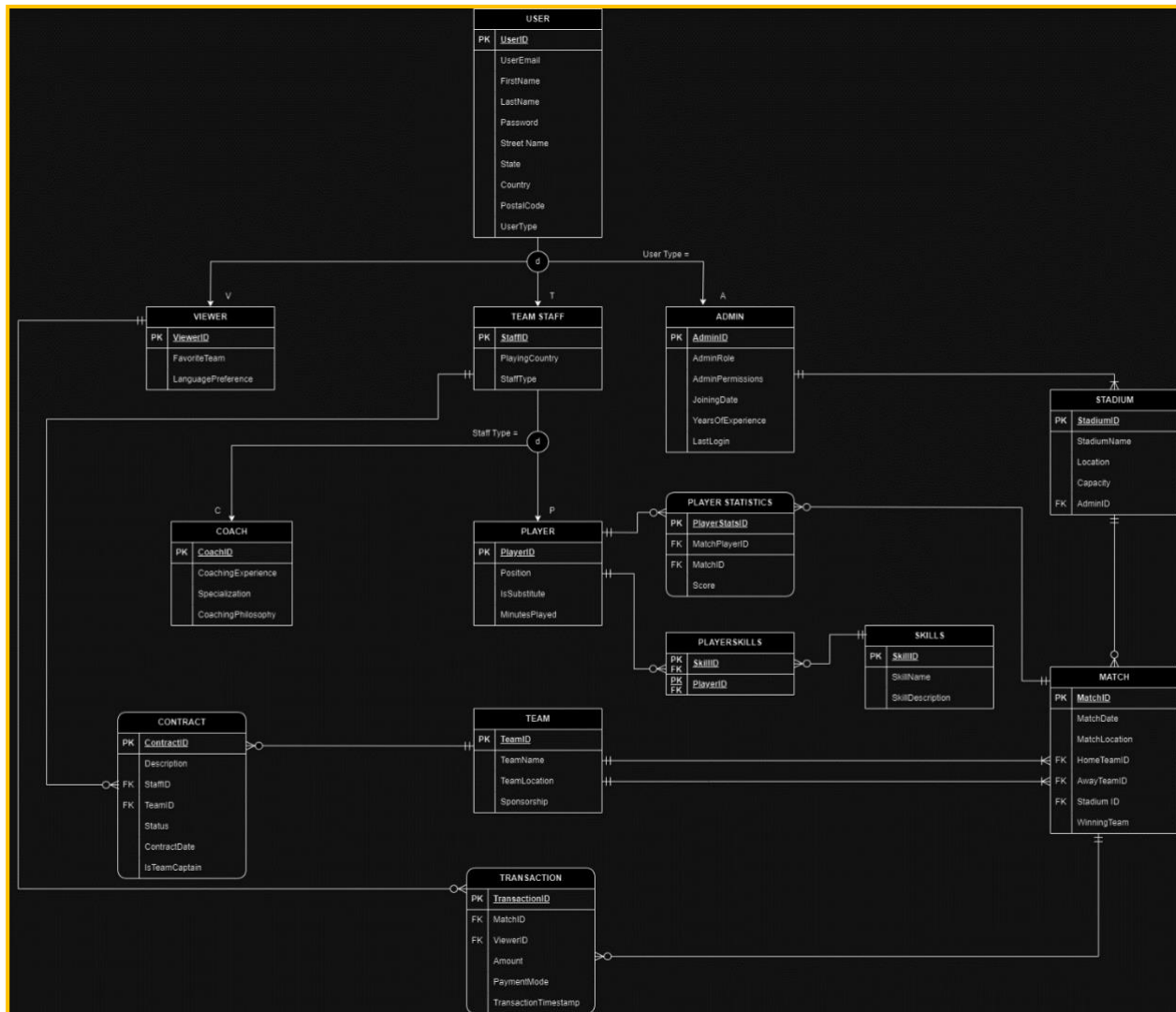


**Northeastern University**

# Initial ERD



## Final ERD



### Brief Description of Changes Made:

- Added realistic attributes to all entities.
- Removed multi-valued and composite attributes from all entities and made sure all the model is in 3NF, we have removed all the transitive dependencies.
- Incorporated date attributes when necessary.
- Established primary keys and foreign keys according to logical database rules.
- Reduced redundancy by merging 'Coach' and 'Player' into a new 'Staff' entity with subtypes.
- Transferred the multivalued attribute of 'Player' to the 'Player Skills' associative entity.
- Introduced the 'Is Team Captain' attribute in the 'Contract' associative entity to denote a player's captaincy status within a team.
- There are two relationships between 'Team' and 'Match' as we have two teams (Home Team & Away Team) participating in the match.

**GitHub Link:** <https://github.com/reeteshkesarwani/Sport-League-Management-System>