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Project Deliverable #1

## Counterstrike Statistics Application

The primary function of our application is the aggregation of statistics and news for the professional gaming community of the video game CS:GO. The application will list professional teams which will have players. The player will have different types of statistics associated with them which will allow the user to view. The systems will allow for the aggregation of statistics of players to view team stats. It will have a guest view who will simply be allowed to view the statistics that are available from professional players and teams. In addition, it will have a user view which will require registration. If the user is a player themselves, they will be prompted to enter their statistics into the database which will allow for direct comparison with professional players. The following is a list of possible ideas of where certain aspects of DBMS and queries could be found in our project.

### Possible queries

The creation of a user view allows for inserting of new values into a table. When registering, they can add their own statistics into the database which will require insert queries. The ability to modify statistics of professional players and teams as well as modifying their own statistics will require queries to update the database with new stats. Viewing statistics will require simple select and project statements though viewing stats from teams may require aggregation of individual player statistics of that team. Viewing low level stats from multiple teams and player will require cartesian products and/or nested subqueries to operate effectively. The following is a list of potential functions, menus, and sub-menus our project could use.

### Main Menu

1. Guest Functions
2. User functions

3. Administrative functions
4. Quit / Exit

#### Guest Functions

1. View team statistics
2. View player statistics
3. View upcoming matches
4. View results of matches
5. Quit / Exit

#### User Functions

1. Register as User
2. Input Player statistics (only self)
3. Edit statistics (only self)
4. View Team Statistics
5. View Player statistics
6. View upcoming matches
7. View results of matches
8. Compare statistics
9. Watch replay
10. Quit / Exit

#### Administrative Functions

1. Add a team
2. Add a player

3. Edit / Update statistics
4. Add game data
5. Deregister users / block users
6. Remove team / player
7. Quit / Exit