

CSUF Basketball App

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Libraries and Frameworks: Bootstrap, Lavish Bootstrap, F3(Fat-Free Framework)

Database operations are handled with F3 SQL mapper

Example of inserting records with SQL Mapper

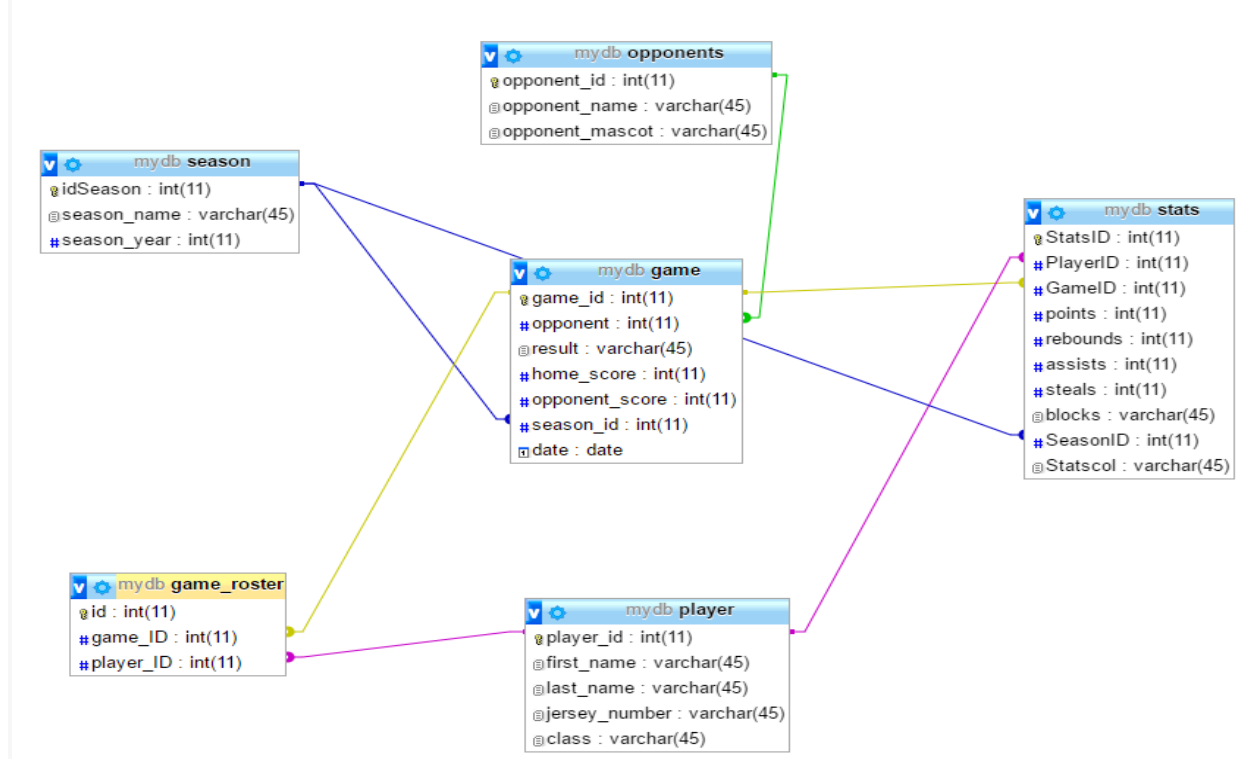
```
$team = new DB\SQL\Mapper($f3->get('DB'),'opponents');

$team->opponent_name = $teamName;
$team->opponent_mascot = $teamMascot;
$team->save();
```

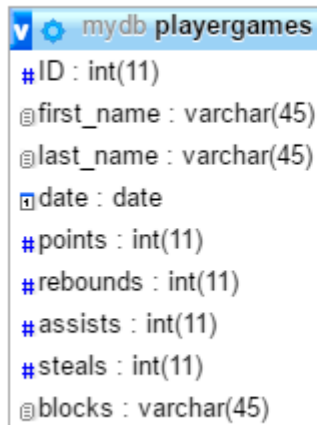
Example of retrieving records with SQL Mapper

```
$player = new DB\SQL\Mapper($f3->get('DB'),'player');
$player->load(array('playerID'=>'Mario'));
if ($player->dry())
    echo 'No record matching criteria';
```

Database Schema for Basketball Data



Views used for SQL Mapper

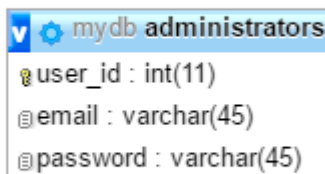


| mydb playergames | |
|------------------|--------------------------|
| # | ID : int(11) |
| @ | first_name : varchar(45) |
| @ | last_name : varchar(45) |
| 1 | date : date |
| # | points : int(11) |
| # | rebounds : int(11) |
| # | assists : int(11) |
| # | steals : int(11) |
| @ | blocks : varchar(45) |



| mydb gamecombined | |
|-------------------|-----------------------------|
| # | id : int(11) |
| @ | opponent_name : varchar(45) |
| @ | result : varchar(45) |
| # | home_score : int(11) |
| # | opponent_score : int(11) |
| 1 | date : date |
| @ | season_name : varchar(45) |
| # | season_year : int(11) |

Table for Administrative Accounts



| mydb administrators | |
|---------------------|------------------------|
| 1 | user_id : int(11) |
| @ | email : varchar(45) |
| @ | password : varchar(45) |

Additional Information in mydb.pdf File

GET Routes

| URL | Description |
|-------------------|--|
| /addGames | Form page to add new Games |
| /addPlayers | Form page to add Players |
| /addPlayerToGame | Form page to add Player to a specific Game |
| /addTeams | Form page to add Seasons and Teams |
| /viewGames | End user page of Game information |
| /viewTeams | End user page of Team information |
| /viewPlayersGames | End user page of Player specific information e.g shots assists |
| /login | End user form page for admins to enter login information |
| /logout | Handles the removal of SESSION variable and logout function |

POST Routes

| URL | Description |
|------------------|---|
| /authenticate | Handles the authentication and SESSION assignment to a given admin |
| /addTeam | Handles the insertion of Team records into the database with an ORM |
| /addSeason | Handles the insertion of Season records into the database with an ORM |
| /addPlayer | Handles the insertion of Player records into the database with an ORM |
| /addPlayerToGame | Handles the insertion of Stat records into the database with an ORM |
| /addGame | Handles the insertion of Game records into the database with an ORM |