

Web Development  
HW #5-6: Database Queries

Imagine you have set up the following schema to model a set of users at a game-playing site:

**users :**

user\_id – Primary Key  
first\_name – varchar(255)  
last\_name – varchar(255)  
email – varchar(255)  
username – varchar(255)

**games:**

game\_id - Primary Key  
game\_name – varchar(255)

**game history:**

Description: This table holds the history of high scores as well as the user id that scored

it.

game\_id – foreign key to game\_id in the games table  
high\_scorer\_id – foreign key to user\_id in users table  
score – int

**HW #5: Due Wednesday: Task #1 and #2 – screenshot of db structure and tables with data sent to my email.**

Task #1: Schema and DB creation:

Create this schema in workbench and forward engineer into your database.

Task #2: SQL INSERT:

Insert 4 users, 3 games, and 5 high scores for each game. Be careful in the game history table to use the correct id from games and users.

**HW #6: Due Friday: Task #3 –**

Task #3: SQL SELECT : Here we will run a series of selects on our data to make sure we know how to get results. I'll ask you to give me the SQL code that would return the data I request. You should attempt the Select in PhPMyAdmin or MySQL Query to make sure it works.

- a) Return all the users
  - b) Return all the users in alphabetical order by last name
  - c) Return only users whose first name contains an 'o' – this might be empty
  - d) Return only the game names from the games table
  - e) Return the game name, high scores and users who made the score for game\_id = 2
- ... we'll add more on. Think about what else you might return