

CSCE 155 – Lab: Databases

Worksheet – C Version

Name _____

1. Look over the code provided in the `games.h` and `games.c` header and source file and answer the following.
 - a. Which function should be used to add a platform to the database and what are its parameters?

 - b. What type of SQL query is used to add records to the database (hint: look at the `addPlatform`, `addVideoGame`, `addPublisher` functions)

 - c. What type of SQL query is used to retrieve records from the database (hint: look at the `getGame`, `getPlatform`, etc. functions).

2. Show and demonstrate your `insertGame` program code to a lab instructor and have them initial this activity _____(Lab Instructor Initials)

3. Activity 3: Data Integrity
 - a. What error messages did you get and why?

- b. A bad database design may not have properly defined the foreign keys between the game and publisher tables, instead allowing the bad game data that we attempted to insert into the database. What consequences could this have for a larger application?
- c. Consider the following: two programs or users use our API to add two different games to the database, both PlayStation 3 games. However, the first user inserts the platform as "PS3" and the second inserts it as "PlayStation III". Would this result in an error? What would the consequences of this be for a larger application?
- d. Say that we wanted to remove a publisher from the database. What would we need to do before we could remove the record?

4. Have a lab instructor sign off on this worksheet and turn it in.

Lab Instructor Signature_____