CIS 421 – Online Video Game Marketplace

The DBMS chosen for the project is SQLite (optional). The specific tasks of the project are the

following:

- choose an enterprise that you are familiar with;

- describe the database requirements for the enterprise informally;

- specify your database requirements using an ER diagram;

- convert your ER diagram into a relational database schema;

- create your relations in the database schema on Oracle and load some sample data into the

database;

- design and run some (at least 10) useful SQL queries/updates on your database.

Your report should include, but is not limited to, the following items:

- a description of the application background,

- a specification of the database requirements,

- the ER diagram,

- the relational database schema,

- the sample database (instance),

- the SQL statements,

- the query/update results.

Requirements for an online video game marketplace

* Be able to purchase a game
* View library of owned games
* View different video games
  + Different categories:
    - Action
    - Fps
    - Rpg
    - Etc.
  + Pricing
  + Publishers
* Way to purchase multiple games at once, basically a cart.
* Store front should allow users to randomly view games to discover ones they may like.
* Game pages should show info on the game including:
  + Price
  + Genre
  + Player count
  + Player reviews
    - Player must own the game to be able to review it.
  + Computer requirements
    - Could be like ram, cpu, graphics card, space required, internet or not?
  + Be able to purchase the game
  + Each game will have a unique number to keep track of individual games
  + Developer
  + Publisher
  + Franchise
  + Release date
  + Screenshots from developer for marketing page
  + Game rating
  + Number of copies sold
* User account
  + Should have library of games
  + Name
  + Other information they wish to input.
  + Payment methods
  + Hours played
    - Possibly sort by games
  + Reviews
* Should we add a user forum that way they can talk about games?
  + If we did things we would need
    - User
      * Username
      * Password
    - Threads
      * Thread id
      * User id
      * Title
      * Date
    - Posts
      * Post id
      * Thread id
      * User id
      * Date
      * Title
      * Body
* For PC specs:
  + Maybe make a table with all the basic parts, that way we can pull from that for minimum and recommended parts.