



Cairo University
Faculty of Computers and Artificial Intelligence
Information Systems Department

Database I, Year 2022/ 2023
Project

Each Student is required to build the database system of the project that was been assigned to him from projects below.

Deliverables:

- Each project has a set of requirements. These requirements include (ERD, Physical model and set of select statements)
- Software Application using C# programming language

General Instructions:

- IS Cheating Policy will be applied ○ No late submissions will be accepted.
- Only One from team has to send the solution via blackboard (No hand written will be accepted)
- Due Date: 28th May at 11:59 pm

Games Rental System

Description	<p>A game rental system provides an easy and cost-effective way to try out new games without having to buy every one.</p> <p>Game rental is a risk-free way to try new games. Because it's so much cheaper than buying.</p> <p>Each game has a vendor who has the responsibility of developing the game.</p> <p>The admin of the system is responsible for adding the games to be rented out by the clients.</p> <p>A games rental system should include the following functionalities:</p> <ul style="list-style-type: none">• Signing up a new user (e.g. admin, client)• Updating a user details• Adding a game (by admin)• Updating a game details (by admin)• Browsing games• Showing a list of games that satisfy certain criteria (e.g. year, vendor, category...)• Performing operations on games: renting, returning.
Requirements	<ol style="list-style-type: none">1. Draw the corresponding ERD for this project2. Convert the ERD to Physical model (<i>DDL scripts</i>)3. The proposed ERD has to be designed in a way that can answer inquiries such the follows (<i>you have to write SQL statement for each inquiry</i>):<ol style="list-style-type: none">a. What was the most interesting game that had maximum number of renters (clients)?b. What were the games that hadn't any renters (clients) last month?c. Who was the renter (client) with the maximum renting last month?d. Who was the vendor with the maximum renting out last month?e. Who were the vendors whose games hadn't any renting last month?f. Who were the vendors who didn't add any game last year?