Database Design Project

Step 1: Data Requirements

1. Indoor Playground has to has to maintain the data regarding the following to maintain successful business
   1. Locations
   2. Games
   3. Game equipment
   4. Employees
   5. Customers
   6. Billing

## Location

1. Location details of the indoor playground

## Games

1. Games will have following properties:
   1. Arcade Video Games, Others,
   2. Single Player, Multiplayer
   3. Children, Adult

## Equipment

1. Each Equipment belongs to a single game
2. Playground has to maintain available equipment stock
3. Price of each equipment in order to buy in future
4. Timings of occupancy on the equipment

## Employees

1. Maintain Employee details

## Customers

1. Contact details
2. Which games they are playing
3. Their payment details

For above requirements we can have the basic entities as follows

## PLAYGROUND\_BRANCH

1. Branch\_id
2. Branch\_name
3. Address
4. Manager\_SSN
5. Opening\_Time
6. Closing\_Time
7. Available\_Games

# Game

1. Game\_Id
2. Name
3. Type (Single\_Player, Multi\_Player (Team Size – 2, More))
4. Age\_Limits (Children 1-15, Adult 15-)
5. Price

# Game\_Equipment

1. Equipment\_Id
2. Game\_Id
3. Branch\_Id
4. Available\_Units

## Employee

1. LName
2. MName
3. FName
4. SSN
5. Address
6. Sex
7. Salary
8. Manager\_SSN
9. Branch\_Id

## Customer

1. Customer\_Id
2. LName
3. FName
4. Card\_No
5. Age
6. Address
7. Phone
8. Membership (Platinum, Gold, Silver) Different kinds of offers apply for each membership types

## Bill

1. Bill\_Id
2. Customer\_Id
3. Date
4. Total\_Amount