Entity 1: Member

- PK MemberID (member's ID)
- Fname (member's first name)
- Lname (member's last name)
- TelephoneNum (member's telephone number)
- Address (member's address)
- GameTokens (game tokens available to the member)
 - Used to check to see if a member has enough game tokens to play a specific game
- TotalSpending (member's total spending)
- MembershipTier (member's membership tier)
- VisitCount (how many times the member has visited the arcade)
 - Used in conjunction with LastVisitDate to check to see if member qualifies for a food coupon
- LastVisitDate (the last date the member visited the arcade)
 - Used in conjunction with VisitCount to check to see if member qualifies for a food coupon
- TotalTickets (the total amount of tickets a member has)
 - Used to check to see if a member has enough tickets to buy a specific prize

Entity 2: Game

- PK GameID (game's ID)
- Name (game's name)
- TokenCost (game's token cost to play)
 - Used to check to see if a member has enough game tokens to play this game
- Tickets (how many tickets earned when playing the game based on the score)

Entity 3: Gameplay

- PK GameplayID (gameplay's ID)
- FK MemberID (member's ID)
- FK GameID (game's ID)
- Score (gameplay's score)
- TicketsEarned (how many tickets earned based on the gameplay's score)
 - Used for TotalTickets in Member entity
- Date (gameplay's date)

Entity 4: Prize

- PK PrizeID (prize's ID)
- Name (prize's name)
- TicketCost (how many tickets the prize cost)
 - Used to check to see if a member has enough tickets to buy this prize

Entity 5: FoodCoupon

- PK CouponID (coupon's ID)
- FK MemberID (member's ID)
- RedeemedFood (the food the coupon redeems)
- Used (whether or not the food coupon has been used or not)

Entity 6: MembershipTier

- PK MembershipID (membership tier's ID)
- Name (membership tier's name)
- TotalSpendingReg (total spending required to achieve this tier)
- DiscountPercentage (discount percentage associated with the membership tier)
- FreeTickets (number of free tickets awarded for achieving this tier)

Entity 7: **Transaction**

- PK TransactionID (transaction's ID)
- Type (type of transaction e.g. token purchase)
- Amount (amount of tokens or tickets involved in purchase)
- Data (data of transaction)

Relationships:

- Member and Game: A member can play multiple games, a game can be played by multiple members
- Member and Gameplay: A member can have multiple gameplays, each gameplay is associated with one member
- **Member and FoodCoupon**: A member can have multiple food coupons, each food coupon is associated with one member
- Member and Prize: A member can get multiple prizes, each price can be bought by multiple members
- **Game and Gameplay**: A game can have multiple gameplays, each gameplay is associated with one game