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Project Deliverable 3

3/29/2019

**Relational Model Steps**

1. Strong Entities

GameStore(GameStoreID, Lcoation, Name)

Customer(CustomerID, Fname, Lname, Gender, Email, Address)

Inventory(InventoryID, Quantity)

OnlineStore(OnlineStoreID)

Payment(PaymentID, PaymentDate, PaymentType, Amount)

Employee(EmpID, Fname, Lname, minit, Email, Address)

Membership(MembershipID, Type)

Game(GameID, Developer, Publisher, ReleaseDate, Name, Price)

Game\_Console(Name, Developer, Price)

Figurine(Name, Brand)

Game\_Accessory(Type, Name, Price)

1. Weak Entities

Shipping(ShippingID, OnlineStoreID, Location, ShippingDate, Email)

WishList(WishListID, OnlineStoreID, Date, CustomerID, ProductName)

Order(OrderID, OnlineStoreID, Quantity, ShippingDate)

Invoice(InvoiceID, PaymentID, Name, OrderQty, TotalAmountDue)

Subscription(SubscriptionID, MembershipID, SubscriptionType, DueDate)

1. 1.1 relationship

Inventory(InventoryID, Quantity, **Has\_GameStoreID**)

1. 1:N relationship

Customer(CustomerID, Fname, Lname, Gender, Email, Address, **OnlineStoreID, MembershipID, PaymentID, GameStoreID**)

Employee(EmpID, Fname, Lname, minit, Email, Address, **CustomerID**)

1. N:M relationship

Purchases(CustomerID, Game\_ConsoleName, GameID, Game\_AccessoryType, FigurineName)

**Final Relational Model**

**GameStore**(GameStoreID, Lcoation, Name)

**Customer**(CustomerID, Fname, Lname, Gender, Email, Address, OnlineStoreID, MembershipID, PaymentID, GameStoreID)

**Inventory**(InventoryID, Quantity, Has\_GameStoreID)

**OnlineStore**(OnlineStoreID)

**Payment**(PaymentID, PaymentDate, PaymentType, Amount)

**Employee**(EmpID, Fname, Lname, minit, Email, Address, CustomerID)

**Membership**(MembershipID, Type)

**Game**(GameID, Developer, Publisher, ReleaseDate, Name, Price)

**Game\_Console**(Name, Developer, Price)

**Figurine**(Name, Brand)

**Game\_Accessory**(Type, Name, Price)

**Shipping**(ShippingID, OnlineStoreID, Location, ShippingDate, Email)

**WishList**(WishListID, OnlineStoreID, Date, CustomerID, ProductName)

**Orders**(OrderID, OnlineStoreID, Quantity, ShippingDate)

**Invoice**(InvoiceID, PaymentID, Name, OrderQty, TotalAmountDue)

**Subscription**(SubscriptionID, MembershipID, SubscriptionType, DueDate)

**Purchases**(CustomerIDNum, Game\_ConsoleNames, GameIDs, Game\_AccessoryType, FigurineName)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | GameStore |  |  |  |
| GameStoreID | Lcoation | Name |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Customer |  |  |  |
| CustomerID | Fname | Lname | Gender | Email | Address | OnlineStoreID |
| MembershipID | PaymentID | GameStoreID |  |  |  |  |

|  |  |  |
| --- | --- | --- |
|  | Inventory |  |
| InventoryID | Quantity | Has\_GameStoreID |

|  |  |
| --- | --- |
| OnlineStore |  |
| OnlineStoreID | OnlineStoreFlag |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Payment | |  | |  |
| PaymentID | PaymentDate | PaymentType | Amount | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Employee |  |  |  |
| EmpID | Fname | Lname | minit | Email | Address | CustomerID |

|  |  |
| --- | --- |
| Membership |  |
| MembershipID | Type |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  | Game |  |  |
| GameID | Developer | Publisher | ReleaseDate | Name | Price |

|  |  |  |
| --- | --- | --- |
|  | Game\_Console | |
| Name | Developer | Price |

|  |  |
| --- | --- |
| Figurine |  |
| Name | Brand |

|  |  |  |
| --- | --- | --- |
|  | Game\_Accessory | |
| Type | Name | Price |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Shipping |  |  |
| ShippingID | OnlineStoreID | Location | ShippingDate | Email |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | WishList |  |  |
| WishListID | OnlineStoreID | Date | CustomerID | ProductName |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Orders |  |
| OrderID | OnlineStoreID | Quantity | ShippingDate |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Invoice |  |  |
| InvoiceID | PaymentID | Name | OrderQty | TotalAmountDue |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Subscription |  |
| SubscriptionID | MembershipID | SubscriptionType | DueDate |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  | Purchases |  |
| CustomerIDNum | Game\_ConsoleNames | GameIDs | Game\_AccessoryType | FigurineName |