

Chapter 1 Entities And Attributes - Games R Us Ex 1

Games R Us is a small retail organization that sells classic computer games for various platforms

The Company has a number of distributors from whom they purchase the computer games for resale.

For selling purposes, the games are classified by appropriate platforms: PC, Wii, Play Station, Xbox, Nintendo etc...

Roughly 20% of their total sales occur through their single retail outlet whilst the remaining 80% of sales are online transactions. Sales are cyclical and are particularly strong at Christmas and during the summer months.

When the business was first established a simple computerized database was created that handled customer orders and sales. A data form is filled out for every customer order, and includes the following:

Customer number _____	Order date _____
First name _____	Discount Rate _____
Last name _____	
Street _____	
Town _____	
County _____	
Postcode _____	
Game number _____	
Game Title _____	

Price £ _____	Game shipped? <input type="checkbox"/>

As the business has grown, the company has come to realize that their simple database has become something of a liability. The database is filled with duplicate data, and it is nearly impossible to delete any unwanted data because inevitably good data gets deleted as well.

Additional considerations:

1. Games R Us offers its customers a purchasing incentive: games are always discounted at 20% less than the retail price.
2. As customers make purchases they can gain Bronze, Silver, Gold and Platinum status offering them further discounts.
3. Games R Us likes to store the names of “potential” customers, even if they’ve never done business with them.
4. Information about current distributors is kept on a manual card system
5. Three times each year, the Company sends out 5–6 page brochures to advertise their top-selling and latest-release games, including general descriptions of each game.
6. The Company does not accept customer orders outside of the UK.

Tasks

Using the Games R Us brief on the previous page:

1. Identify three entities from the data defined on the customer order form.
2. Identify any attributes for the three entities.
3. Identify an additional business object from the brief that could be converted into an entity.
4. Suggest any attributes that this new entity should support.

Remember to list entities in the singular. It is common practice to define entities in CAPITALS so as to distinguish them from attributes (that should be Pascal Cased).