



NOVA

IMS

Information
Management
School

Storing and Retrieving Data Project

DEVELOPMENT OF A RELATIONAL DATABASE FOR GAMESTORE

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1. Business process of GameStore

Scenario

For the design of our relational database, we decided to work on a fictional online video game store. GameStore is an e-company that sells videogames exclusively online. Our business is completely digitalized, and therefore, we don't have warehouses nor physical shops to deal with. We do, however, have a limited stock of games, since each copy of a game requires a unique game key. The company has been operating for a little over two years, with our first order being fulfilled on the 23/08/2020.

What is our product?

Video games are an attractive option for many people looking for something to take off their minds from the daily routine. We sell exclusively digital copies of video games, allowing the customer to have immediate access to the titles they purchase. With our rich variety of options, everyone is bound to find at least one game to their liking. We also have a wide range of prices, starting from €5.99 with old classics like "Domination and Angels" to the newest and hottest entries in the gaming world like "Blaster Works" for the typical release date price of €69.99.

To help customers less familiar with the gaming world, we provide a brief description of the game and a PEGI rating, allowing the customer to know if the game is age appropriate for whoever they are looking to buy it for.

How do we operate?

GameStore is a virtual store, meaning all transactions take place online. The customer searches for the games they wish to purchase on our website, pays for them, and receives an invoice with their "ID Order" and the total cost after taxes and any applicable discounts. The tax is the 23% standard VAT rate for Portugal. As for the discounts, we release special promotion codes, that if used during a specific time of the year, will yield discount rates of up to 35%.

A client places an order, where he chooses the items they want, and how much of each one they want. An invoice is generated automatically once an order is placed. Since the payment is immediate, the dates of the issue and payment are the same. The invoice contains our address and contact information, so the client can easily reach us if any problems arise. Since no physical product is shipped, the only details we need from our client are their email (to send the invoice and information), location, phone number and birthdate, for more age-appropriate recommendations.

2. Entity Relationship Diagram (ERD)

