

# Storing and Retrieving Data - Project Report

Development of a database for ISports



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## 1. Description of ISports

For this project we decided to work around a fictitious online sports shop: ISports. The company exists since 2018 and it is dedicated to selling all sorts of sport and sport related products, from different international brands, working as a retailer which resells products obtained directly from those brands. With this said, ISports' focus is on various sporting equipment, appropriate clothing and other important supplies.

The only core of the company is its virtual store, not having any physical presence in the market. The customers search for products on the website, place an order and receive it at their homes (or any other place they desire), with free shipping. Such approach has worked perfectly for the brand as it has already gained country-wide exposure and recognition, especially in Europe and in Latin America, where there can be seen a light but growing presence of non-Portuguese customers and purchases.

At the moment, ISports has its headquarters in Portugal and three warehouses spread throughout the world: in Portugal, in Poland and in Brazil, aiming to facilitate the delivery processes of all orders.

Regarding ISports' business process, it is important to mention that an order is registered on a centralized database and the corresponding products are retrieved from the warehouse that is closer to the customer's shipping address (the address provided), except when the closest warehouse doesn't have a certain item in stock. In those cases, another warehouse ships the product, so there might even be scenarios where an order has the same product obtained from more than one warehouse. Also, the invoice is made at the same time as the order is placed, therefore the dates of both are equal and the order is always associated with an invoice.

Recently, ISports acquired a small physical sports store in the verge of bankruptcy, located in the same region as ISports' headquarters, thus gaining all their previous customers. There were some details missing about them that will be requested when they place an order, such as the location or their fiscal number. Nonetheless, they can still be contacted via the email obtained, with which ISports will target them with a marketing campaign to gain their loyalty.

### General information about ISports:

- Official company name: ISports Lda.
- Company website: [www.isports.pt](http://www.isports.pt)

	Full Address	Email	Phone Number
<b>Headquarters</b>	Rua Mouco 35, 2750-514 Cascais, Lisboa, Portugal	isports@gmail.com	+351 216 971 724
<b>Warehouse 1</b>	97 Avenida Columbano Bordalo Pinheiro, 1099-456, Lisboa, Lisboa, Portugal	w1.isports@gmail.com	+351 216 234 334
<b>Warehouse 2</b>	ul. Generała Kościuszki Tadeusza 104, 30-114, Kraków, Kraków, Poland	w2.isports@gmail.com	+51 757 68072
<b>Warehouse 3</b>	Rua Frei Caneca 1360, 01307-002, São Paulo, São Paulo, Brazil	w3.isports@gmail.com	+(21) 4901-4868

## 2. Entity Relationship Diagram (ERD)

