**PROJECT REPORT**

**ANALYSIS OF DATABASE**

**Mahmut AKTAŞ - 150115010**

**Muhammet ŞERAMET - 150115069**

**ENTITY**

* Authors are identified by a unique author name and unique address, URL.
* Books have unique ISBN, came out year, title, price.
* All publishers identified by name, and address, phone, URL.
* Shopping baskets have unique id.
* Warehouses have own unique code, and their phone numbers, addresses.
* Customers identified by email, and have their name, phone and address

**THEIR RELATIONSHIP**

* Every shopping basket has only one customer. A customer can has more than one shopping basket
* Every book must be written by only one author. An author can write lots of books.
* Every book can be stored in many different warehouses. Every warehouse can have plenty of books.
* Every book can be published by more than one publisher. Each publishler can publish many books.
* Every shopping basket can contain more than one book. Each book can be contained by more than one shopping basket.
* Publishing book has publisher name and author name.
* Creating shopping basket has customer email.

We have collected real time data from Amazon book sales while we are creating our database system. In our database system, we have 10000 unique book name, publisher, author. In the environment we will create, customer can see books with their properties such as author, publisher of the book, publishing year, book price, book title and the picture of the book.

For the books we collect real book names with their exact year and publisher name. There are lots of same book in the warehouses. The dataset we found has an unique book\_id column for our ISBN numbers.

For the warehouses, the dataset we found has nothing in common with our database system. So we have to use made up places. Also for each of them we gave random phone numbers and addresses. We will try to add different warehouses to this table as much as we can but unfortunately this table won’t be big as books table.

For the customer we made up lots of names , emails, phone numbers and addresses. Every customer can have more than one shopping basket. In this shopping baskets, costumer can order at least one book at a time. And also costumer can create different shopping baskets.

For the publisher we collect real publishing compaines. So every publisher can publish more than one book. The dataset we have do not have a website for each publisher, so we couldn’t access their url addresses and we have to use made up url addresses.

The E-R diagram of the project is can be found below.

