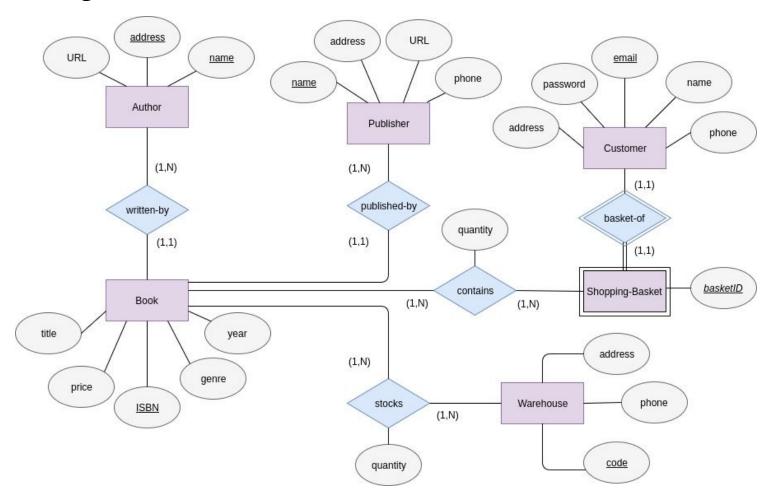
## **DATABASE MANAGEMENT SYSTEMS**ER-DIAGRAM AND RELATIONAL SCHEMA

## **Group Members:**

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## **ER-Diagram:**



**Note:** There are books that might not have author(s) or might not have publisher(s), thus, no total participation from books' side is required.

## **Relational Schema:**

- Author (<u>name</u>, <u>address</u>, URL)
  - o name, address(alphanumeric) and URL are all characters(VARCHAR).
- Publisher ( name, address, URL, phone)
  - o name, address(alphanumeric) and URL are all characters(VARCHAR).
  - o phone is a number(NUMBER).
- Customer (<u>e-mail</u>, name, address, phone, password)
  - o name, address (alphanumeric) and URL are all characters(VARCHAR).
  - o phone is a number(NUMBER).
  - o password is alphanumeric(VARCHAR).
- Shopping-Basket (<u>basketID</u>, <u>customer email</u>)
  - basketID is alphanumeric and customer\_email is a character (VARCHAR).
- Book (title, price, genre, year, ISBN)
  - o title and genre are characters (VARCHAR).
  - o price, year and ISBN are numbers (NUMBERS).
- Warehouse ( <u>code</u>, phone, address )
  - o phone is a number (NUMBERS).
  - o code and address are alphanumeric (VARCHAR).
- Written-by (<u>author\_name</u>, <u>author\_address</u>, <u>ISBN</u>)
  - ISBN is a number (NUMBERS).
  - o author name and author address(alphanumeric) are characters (VARCHAR).
- Published-by ( publisher name, ISBN )
  - ISBN is a number (NUMBERS).
  - o publisher name is a character (VARCHAR).
- Contains (ISBN, basketID, quantity)
  - ISBN, quantity are numbers (NUMBERS).
  - o basketID is alphanumeric (VARCHAR).
- Stocks (<u>ISBN</u>, <u>warehouse\_code</u>, quantity)
  - ISBN, quantity are numbers (NUMBERS).
  - o code is alphanumeric (VARCHAR).