**Muhand Jumah**

**Relational Model for the “Buying a Book” ER diagram**

Relation with redundancy

* **Publisher(**ID**,** FirstName, LastName**).**
* **Books(**ID, ISBN, Title, Description, Edition, Price, Publisher\_ID, Editor\_ID, Buyer\_ID, Subject\_ID**).**
* **Editor(**ID, FirstName, LastName).
* **Buyer(**ID, FirstName, LastName, Budget**).**
* **Subject(**ID, SubjectName).
* **Author(**ID, FirstName, LastName, Subject\_ID).
* **By(**Book\_ID, Author\_ID**).**

Relation without redundancy

* **Publisher(**ID**,** FirstName, LastName**).**
* **Books(**ID, ISBN, Title, Description, Edition, Price, Publisher\_ID, Editor\_ID, Buyer\_ID, Subject\_ID**).**
* **Editor(**ID, FirstName, LastName).
* **Buyer(**ID, FirstName, LastName, Budget**).**
* **Subject(**ID, SubjectName).
* **Author(**ID, FirstName, LastName, Subject\_ID).
* **By(**Book\_ID, Author\_ID**).**

**NOTE:** I did not see any redundancy but if I have to think of one then I think I would remove the Editor able and just add the editor name to the Books Table, but if we are talking about scaling this database then I think having the editor as a separate table is better design.