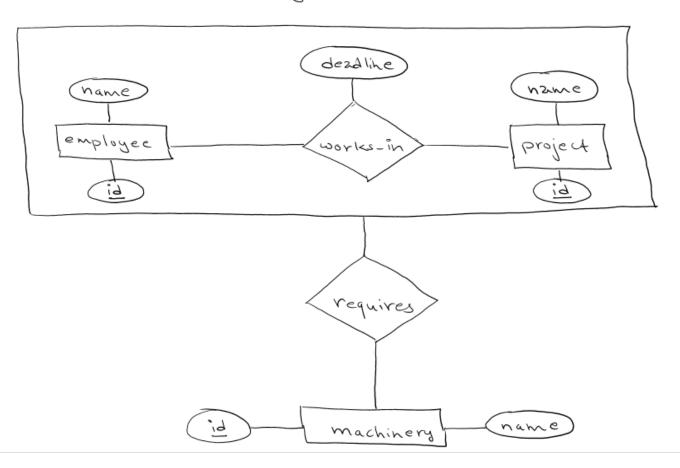
Name: Subhojit Ghimire Sch Id: 1912160 Subject: DBMS Tutorial Date: 10/11/2021

- Qui. Define the concept of aggregation. Give an example of where this concept is useful and explain it.
 - Aggregation is an abstraction through which relationships are treated as higher-level entities. Thus, the relationship between A and B is treated as if they were an entity C.

For example: Employees work for projects. An employee working for a particular project uses various machinery.

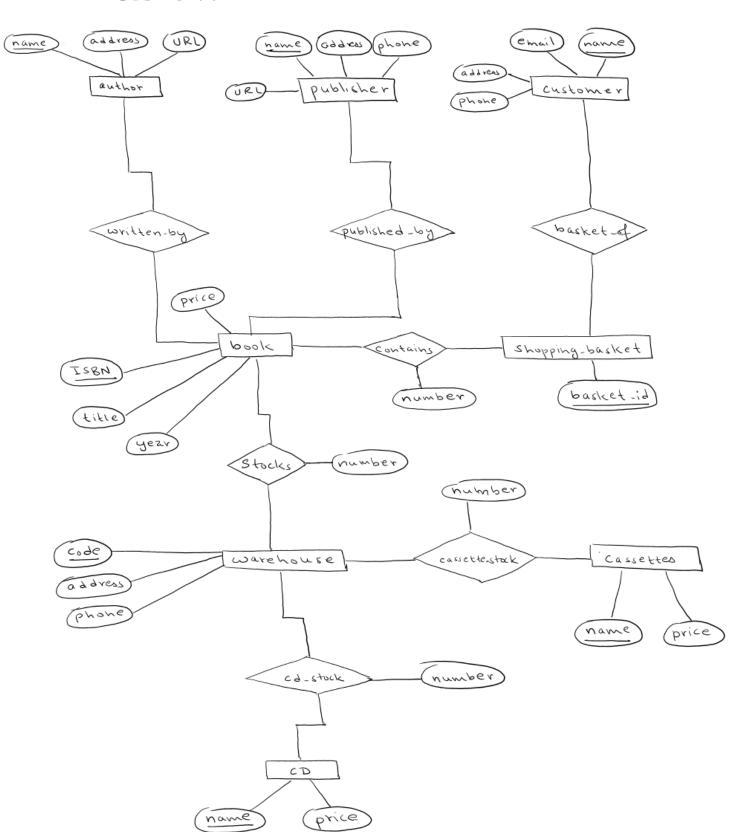


- Qo20 Consider the E-R diagram in Figure 2.10, which models an online bookstore.
 - (a) List the entity sets and their primary keys.

 -> Entity sets and primary keys:

 1. author (name, address, URL)

 PRIMARY KEY (name)
 - 2. publisher (name, address, phone, URL)
 PRIMARY KEY (name)
 - 3. customer (email, name, address, phone)
 PRIMARY KEY (email)
 - 4. book (ISBN, title, year, price)
 PRIMARY KEY (ISBN)
 - 5. wzrehowe (code, zddress, phone)
 PRIMARY KEY (code)
 - 6. Shopping-basket (basket ID)
 PRIMARY KEY (basket ID)
 - (b) Suppose the bookstore adds music cassettes and compact disks to its collection. The same music may be present in cassette or compact disk format, with different prices. Extend the E-R diagram to model this addition, ignoring the effect on shopping baskets.



(C) Now extend the ER Diagram, using generalisation, to model the case where a shopping basket may contain an combination of books, music cassettes, or compack disks.

> Extended ER using Generalisation:

