

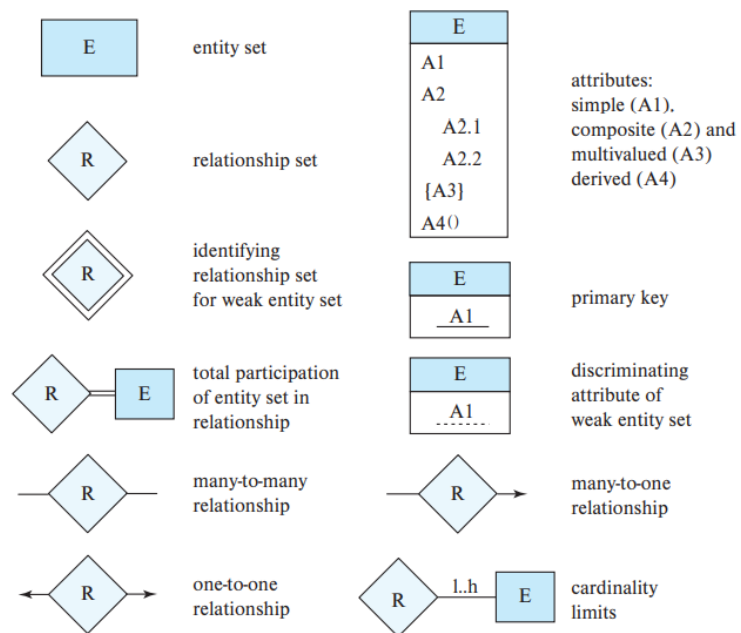
## COSC 4301 – Database Theory and Practice

### Lab 06

Develop an ER-Diagram along with the corresponding schema to represent the database for the semester project. Include on the ER-Diagram:

- Minimum of six entity sets and respective relationship sets
- At least one composite, multivalued, and derived attribute each
- Primary keys indicated
- Cardinality represented
- Total and partial participation represented
- At least one weak entity set

Symbols used in E-R notation



## Library Database Schema

### Employee

EID, first\_name, last\_name, phone\_number, date\_of\_birth, SUID

### Section

SID, EID, genre

### Customer

CID, EID, total

### Author

AID, first\_name, last\_name, SID

### Book

ISBN, AID, title, price, number\_of\_copies

### Book\_Copy

ISBN, Library\_Book\_ID (Composite key of ISBN and Library\_Book\_ID)

# Library Database ER Diagram

