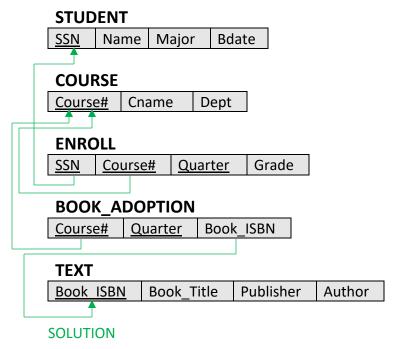
## CSC430/530 – Database Management Systems

Hands-on activity – Foreign Keys & Referential Integrity Constraints

Consider following relations for a database that keeps track of student enrollment in courses and the books adopted for each course:

STUDENT(<u>SSN</u>, Name, Major, Bdate)
COURSE(<u>Course#</u>, Cname, Dept)
ENROLL(<u>SSN</u>, <u>Course#</u>, <u>Quarter</u>, Grade)
BOOK\_ADOPTION(<u>Course#</u>, <u>Quarter</u>, Book\_ISBN)
TEXT(<u>Book\_ISBN</u>, Book\_Title, Publisher, Author)

Specify foreign keys and referential integrity constraints in the provided relational schema diagram.



The schema has the following four foreign keys:

- The attribute <u>SSN</u> of relation ENROLL that references relation STUDENT.
- The attribute Course# in relation ENROLL that references relation COURSE.
- The attribute Course# in relation BOOK ADOPTION that references relation COURSE.
- The attribute **Book ISBN** of relation BOOK ADOPTION that references relation TEXT.