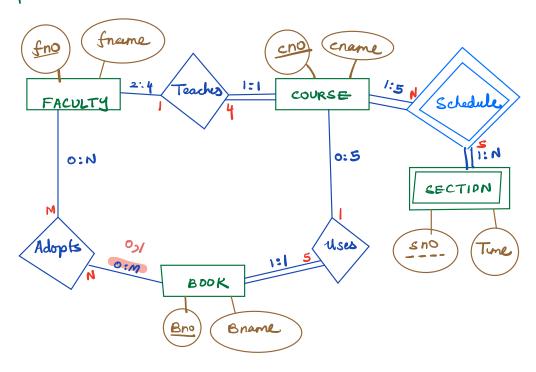
## Example:



faculty (fno, fname)

course (cho, cname, fno)

book (bno, bname, cno)

section (sno, cno, time)

adopts (fno, bno)

Question: If there are 3 nows in faculty table, what is the maximum # of nows in course table?

## Constraints

Old: 3-2, 3.3, 4-1, 4-2, 4-4, 5-2, 5.4

\* written once - schema DDL - and stored in the delabase.

\* execution at: - bulk loading

- insert

- delete

- update

Types of integrity constraints:

\* key: UNIQUE & NON-NULL , PRIMARY

\* foreign key constraints (referential constraints)

\* NON - NULL

\* attribute based

\* hiple based

not in my sal

\* inter-relation constraints

CREATE TABLE Department

( DNO INT

Drame String NON NULL

mgrssN Char(9)

```
pamary key (DNO) unique & non-null
      UNIQUE (Dname) -> candidate
      foreign key (mgn-SSN) REFERENCES
                              EMPLOYEE (SSN);
                                     primary key of
                                        EMPLOYER
 x & Department · mgrssN => x & Employee · SSN
Foreign key violations:
1) insert into Department y & Emp. SSN
2 delete from Emp
3 update emp. SSN
4 update Dept. mgnssN
Possible foreign key violation actions:
 Department Table
   * insert
   * update
 default action: RESTRICT - not allowed; error mg
  Employee Table: priorary key SSN
    * delete
    * update
```

Possible actions: (Default)

(2) SET NULL

3 CASCADE