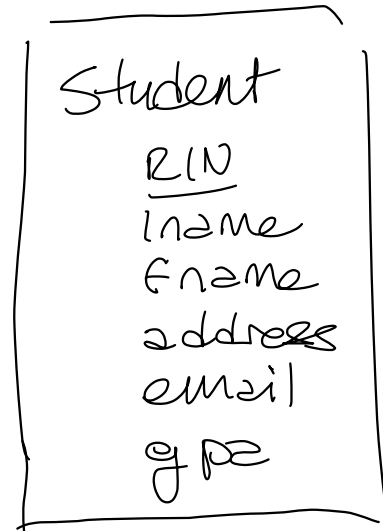


Alternate notation:



Student (id, name, hobby, major)

id \rightarrow name

Key: id, hobby, major
✓ BCNF

S1 (id, name) ✓ BCNF

id \rightarrow name Key: id

id \Rightarrow name

✓ 4NF

S2 (id, hobby, major)

Key: id, hobby, major

id \Rightarrow hobby

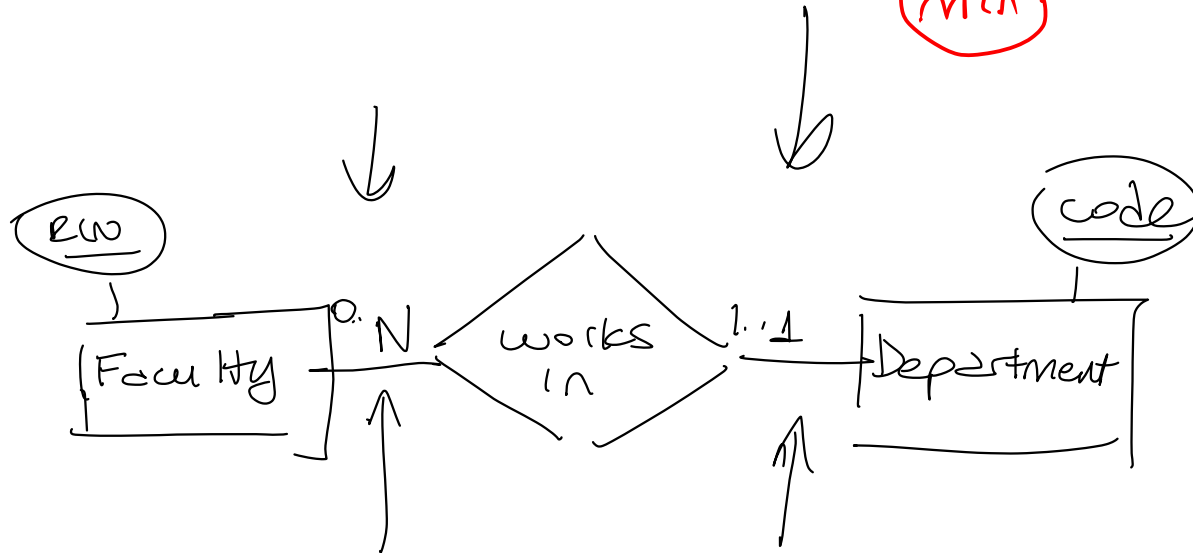
id \Rightarrow major

NOT IN 4NF

Should each dept have at least one faculty?

Should each faculty work in 2 dept?

MIN

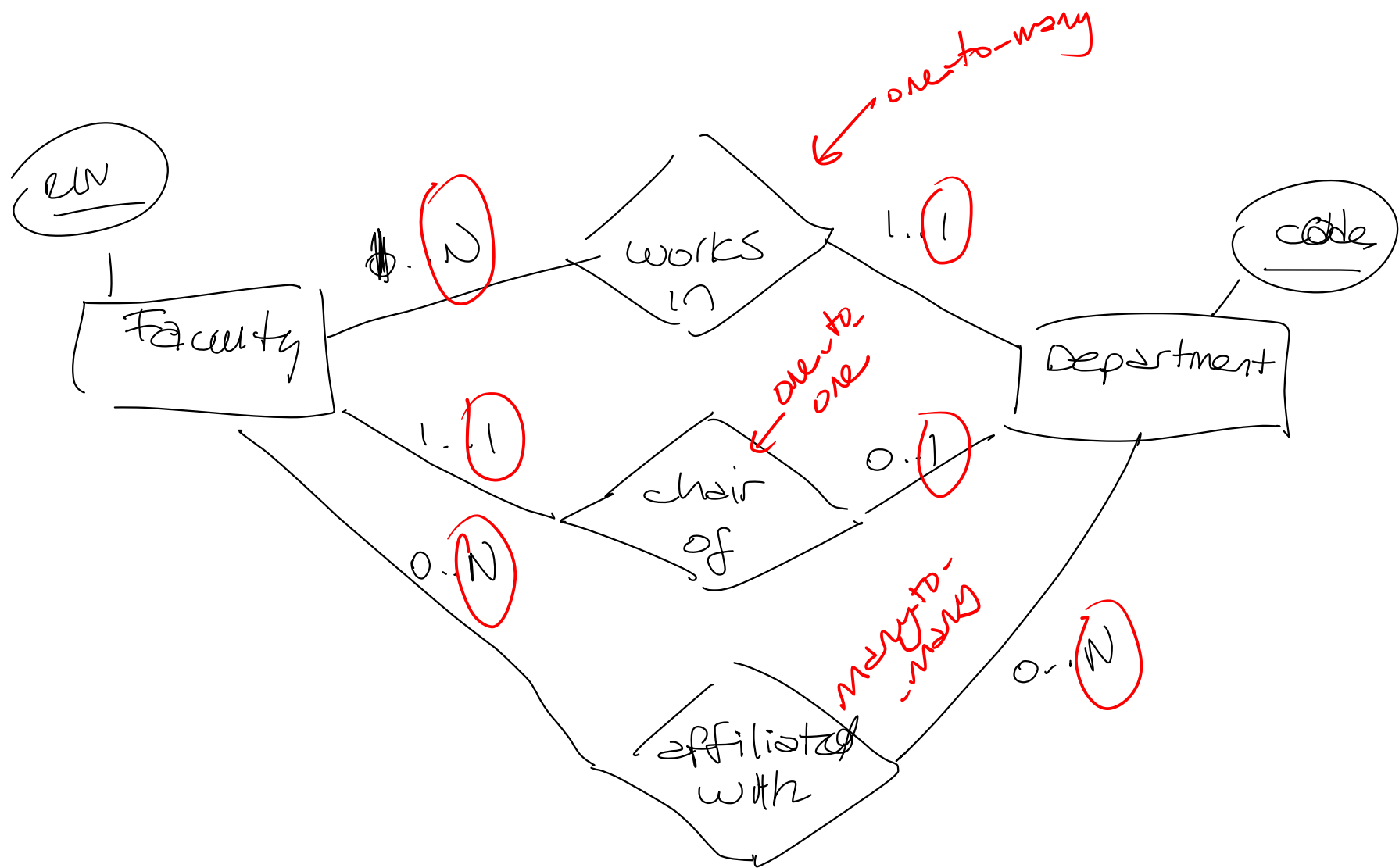


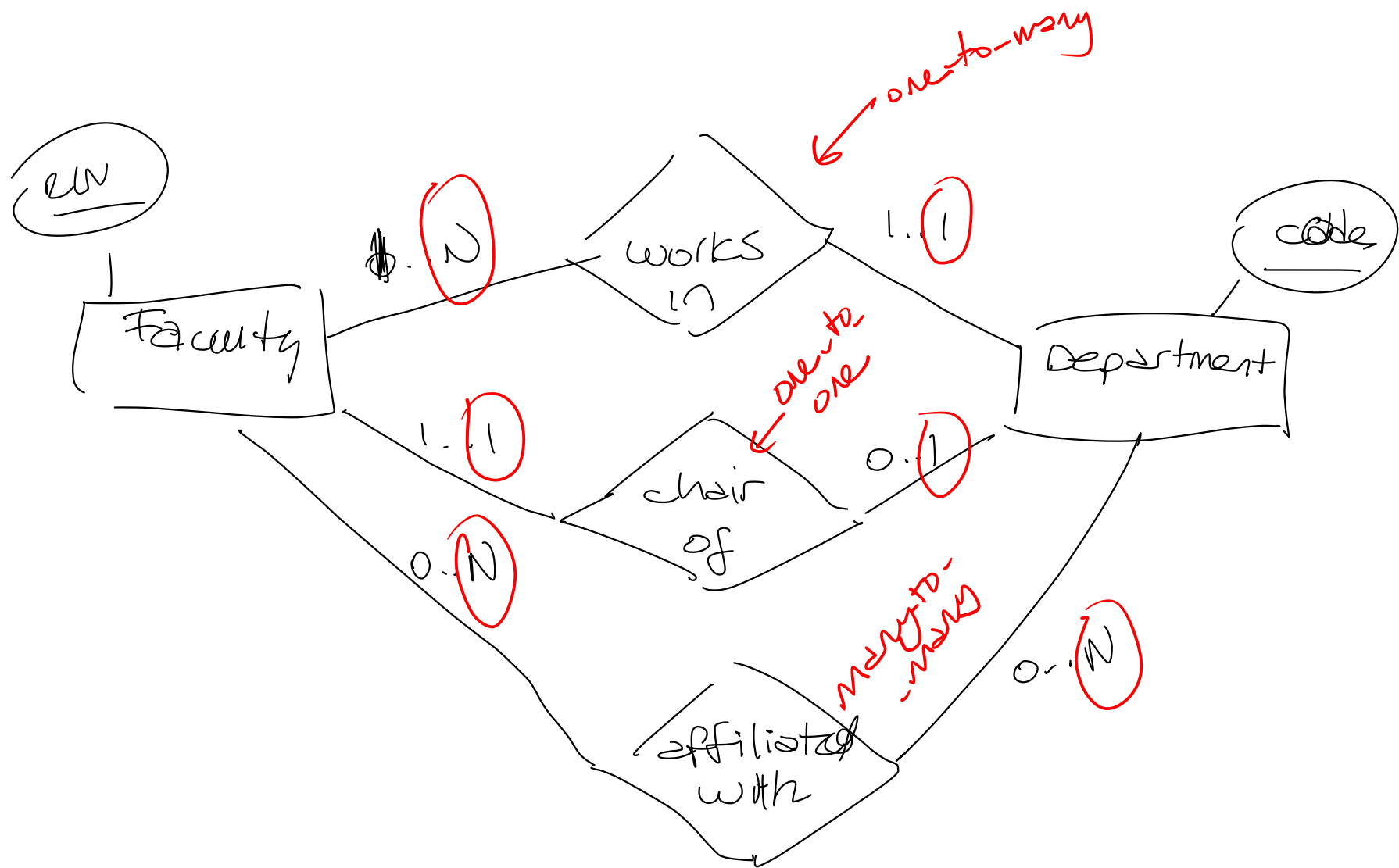
A department can have how many faculty who work in it?

MAX

A faculty can work in how many departments?

MAX





Faculty (RN, ... , dept_code_works_for ,
 Department (code, ... , RN_chair_id

Book notation

