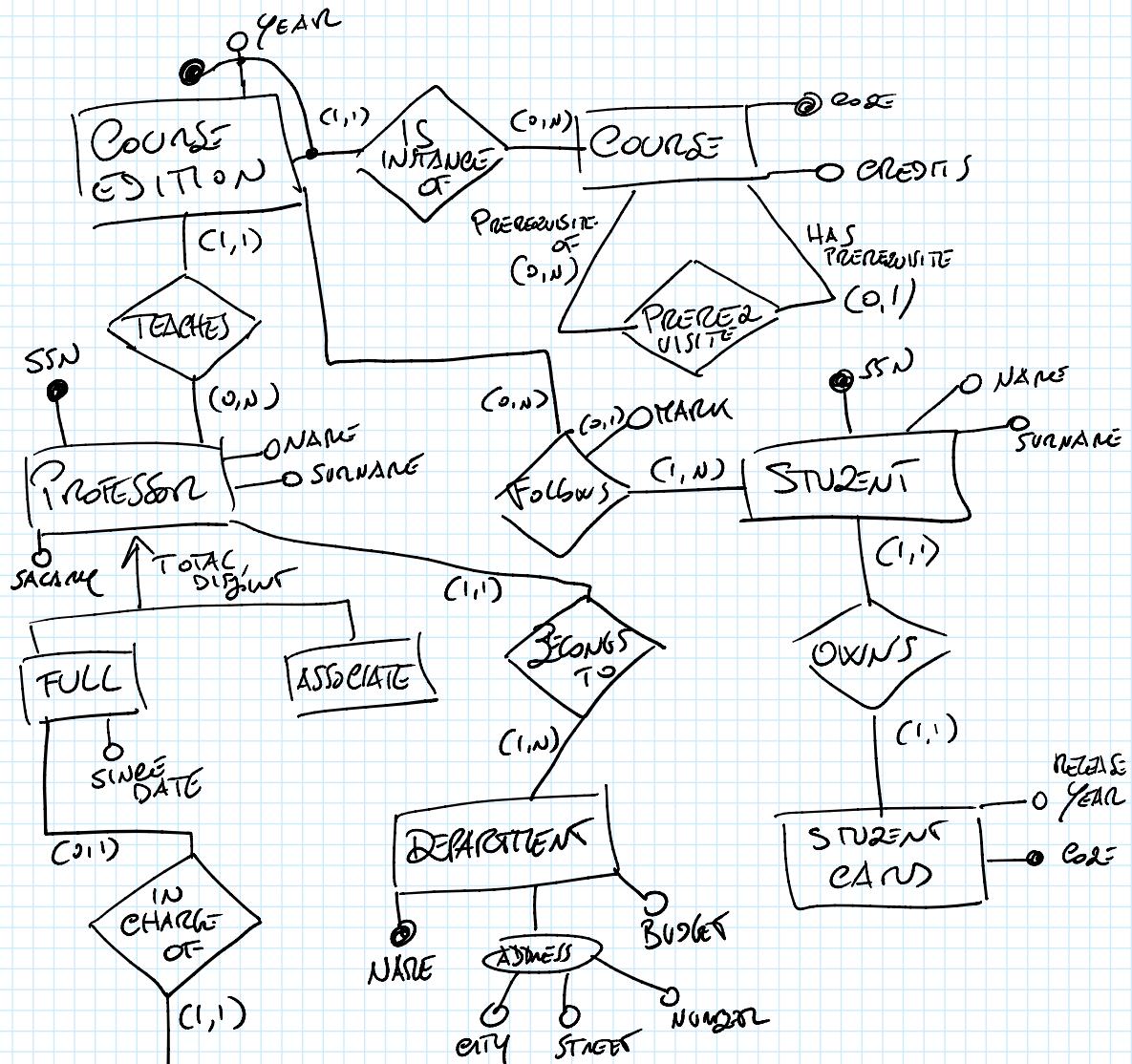


# Lezione ER mapping TS

sabato 12 marzo 2022 14:46



NOTATION:  $R(A, B, C, D)$

PK (TOGETHER) → Nat Num

DEPARTMENT (NAME, BUDGET, ADDRESS)

PROFESSOR (ssn, salary, name, surname, type, date\_full, department\_name) FK: {professor\_department\_name} → {name}

STUDENT (ssn, name, surname, card\_code, card\_year)  $\cup$  (card\_code)

COURSE (code, credits, prerequisite) FK: {course\_prerequisite} → {code}

Course → Course-Edition → Professor

COURSE (CODE, CREDITS, PREREQUISITE) FK: {PREREQUISITE} → {COURSE} {CODE} → {COURSE}

COURSE\_EDITION (COURSE\_CODE, YEAR, PROFESSOR\_SSN) FK: {COURSE\_EDITION} → {COURSE} {CODE} → {COURSE} FK: {COURSE\_EDITION} → {PROFESSOR} {SSN} → {PROFESSOR\_SSN}

FOLLOWS (STUDENT\_SSN, COURSE\_CODE, COURSE\_YEAR, MARK) FK: {STUDENT\_SSN} → {STUDENT} {COURSE\_CODE} → {COURSE\_EDITION} {COURSE\_YEAR} → {COURSE\_EDITION}

COMMISSION (CODE, DESCRIPTION, PROFESSOR\_SSN) U({PROFESSOR\_SSN})

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THE SOLUTION DOES NOT ENFORCE:

- TOTAL PARTICIPATION OF STUDENT TO "FOLLOWS"
- TOTAL PARTICIPATION OF DEPARTMENT TO "BELONGS TO"
- THE FACT THAT ONLY FULL PROFESSORS MAY BE IN CHARGE OF A COMMISSION
- THE FACT THAT ALL FULL PROFESSORS AND ONLY THEM, HAVE A NON-NULL VALUE OF "DATE\_FULL"