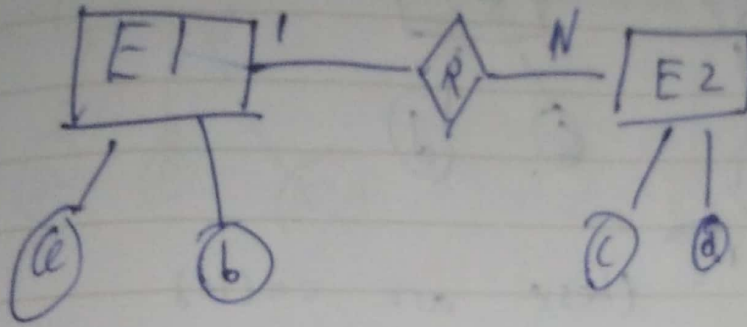# Lab Relationship Schema mapping

Rule 04 - Binary 1:N
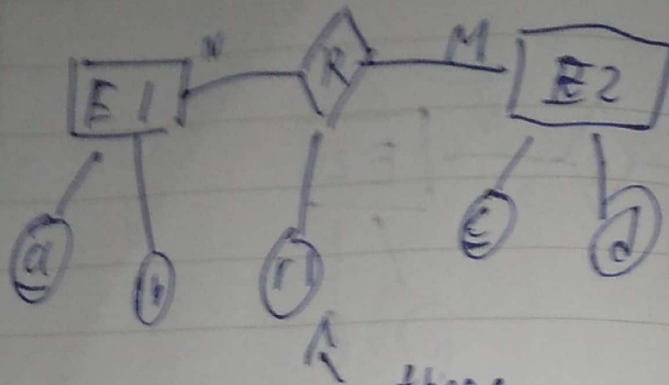

$E1(\underline{a}, b)$

$E2(\underline{c}, d, a)$

$$E1$$

a	b

$$E2$$

c	d	a
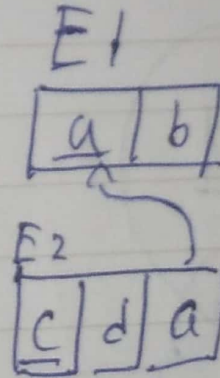
※ The PK of 1 side goes to N side

Rule of — binary N:M

E1 —N— R —M— E2

E1 attributes: @ (a), b
R attribute: r1

↑ these are called relation attribute

E1

a	b

E2
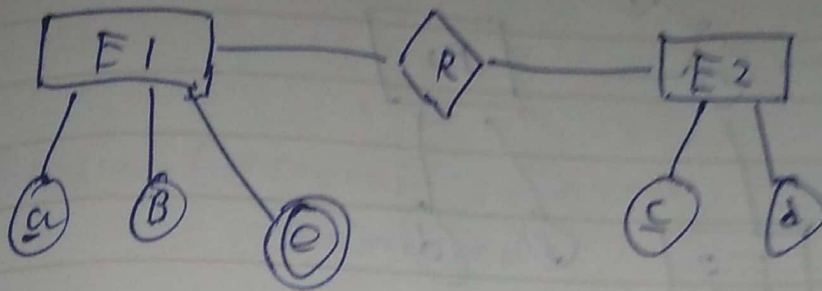
c	d
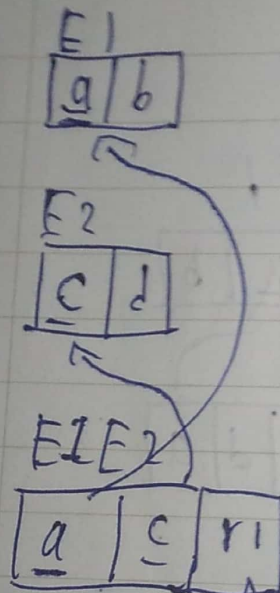
E1E2

a	c	r1

$E1(\underline{a}, b)$

$E2(\underline{c}, d)$

$E3(\underline{a}, \underline{c}, r1)$

↑ put the relation attribute in a new table with the primary keys of the connected entities
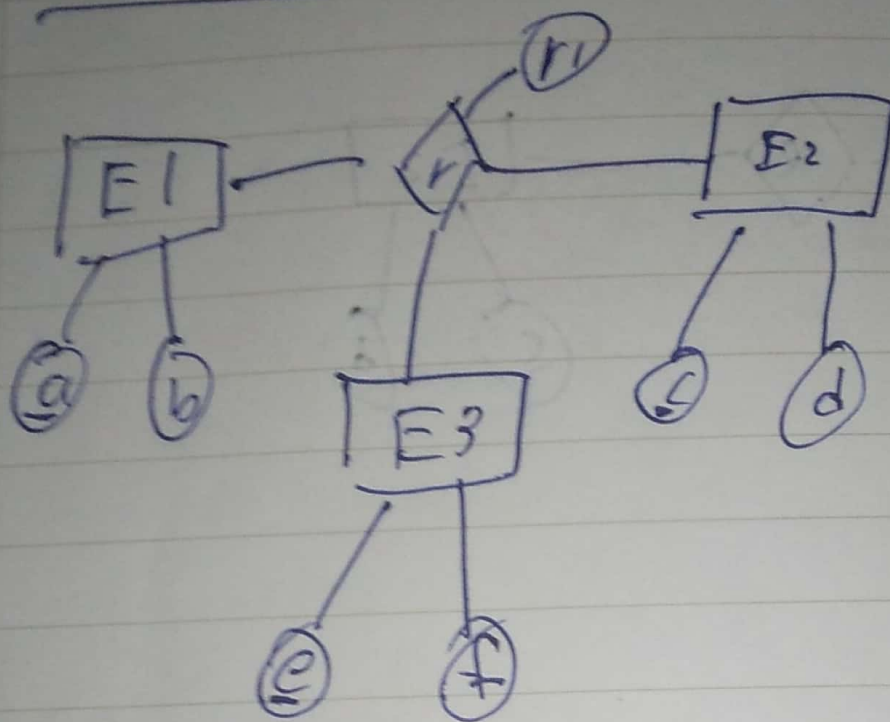
Rule 06 — Multivalued attribute

$$E1(\underline{a}, B)$$
$$E2(\underline{c}, d)$$

$$E1\_e(\underline{a}, \underline{e})$$

Rule 07 - N-ary

E1(a , b)
E2 (c , d)
E3(e , f)

E1 E2 E3 (a , c , e , R1)

Student (Student_ID, Givenpames, Surname, Date of birth, Year enrolled, program Id

program (Program Id, name, creditpoints, year commerced

course (C-ID, name, CP, YC, P_ID, year, sem,

student course (C_ID, S_ID, year, sem, mark grade)