A CAR-REPAIR-SHOP ER-MODEL

Cardinality Constraints:

- The numbers 2:3 next to MECHANICS indicate each mechanic participates in at least 2 and at most 3 instances of HANDLES relationship.

- The numbers 1:2 next to REPAIR_TYPES indicate each repair-type participates in at least 1 and at most 2 instances of HANDLES relationship.
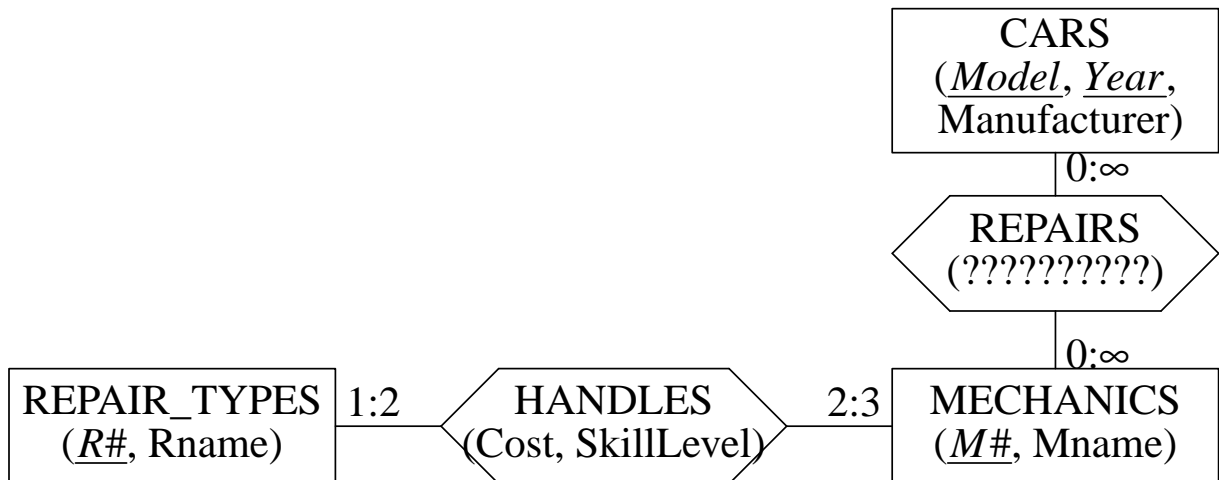
REPAIR_TYPES ($R\#$, Rname)	1:2	HANDLES (Cost, SkillLevel)	2:3	MECHANICS ($M\#$, Mname)

$R\#$	Rname
R1	Break
R2	Tire
R3	Transmission

$M\#$	Mname
M1	John
M2	Randy

HANDLES:	$R\#$	$M\#$	Cost	SkillLevel
	R1	M1	$30	1
	R1	M2	$40	2
	R2	M2	$10	2
	R3	M1	$1000	2

Question:

- ? If we put SkillLevel as an attribute of MECHANICS, how will that change the table for HANDLES? What would it mean if we make it a key of HANDLES-relationship?

EXTENDING THE CAR-REPAIR-SHOP
ER-MODEL

Questions:

•? What should be some attributes of REPAIRS?

•? If we want to schedule/choose repair-work based on availability of mechanics, what attributes are needed and where to put them (justify your answer, including what would go wrong if it was placed somewhere else)?