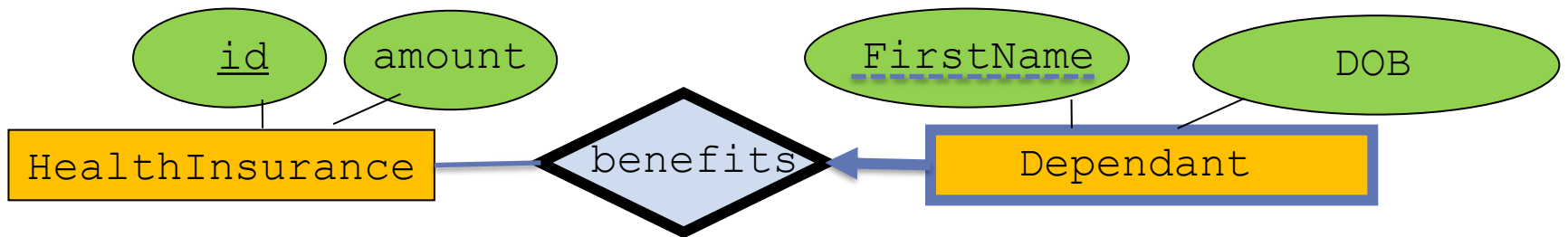


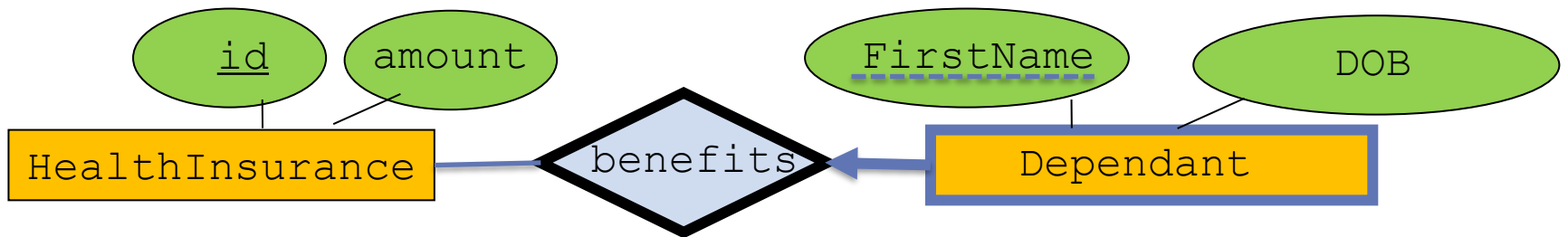
Entity-Relationship Model Supplemental Notes

Weak Entities



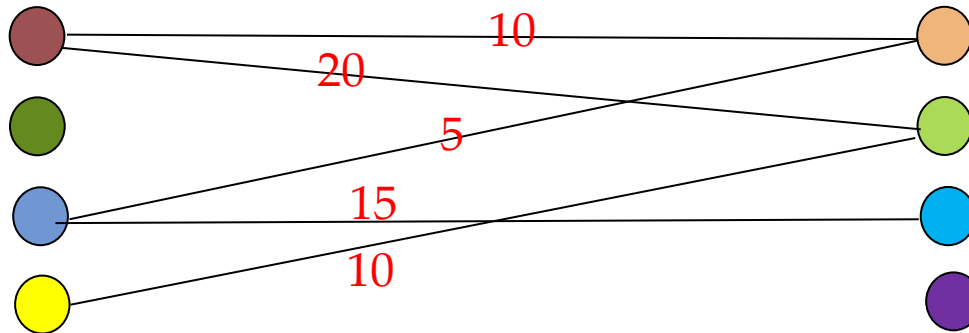
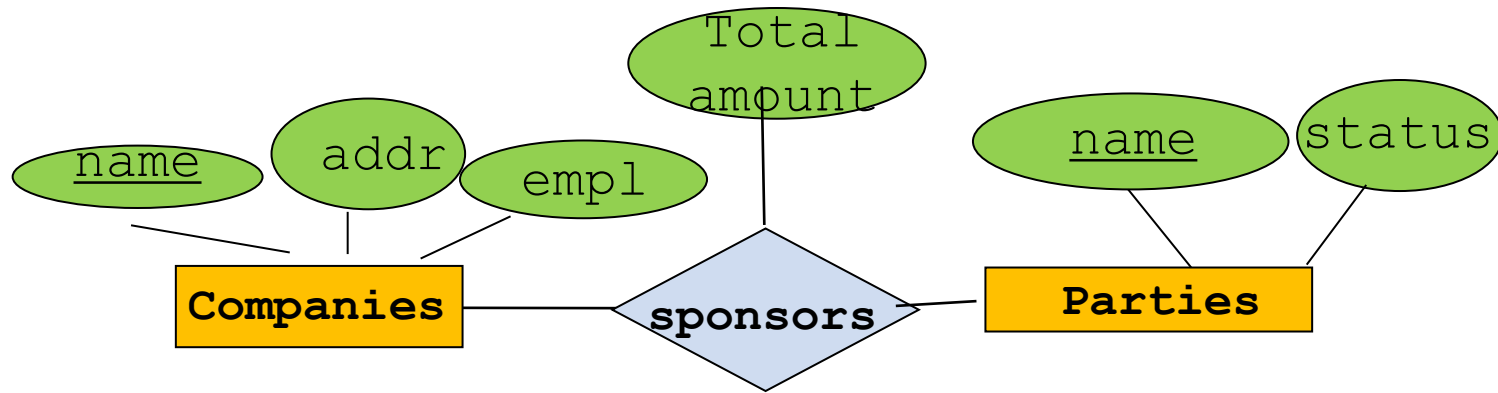
Correct or incorrect?

Weak Entities



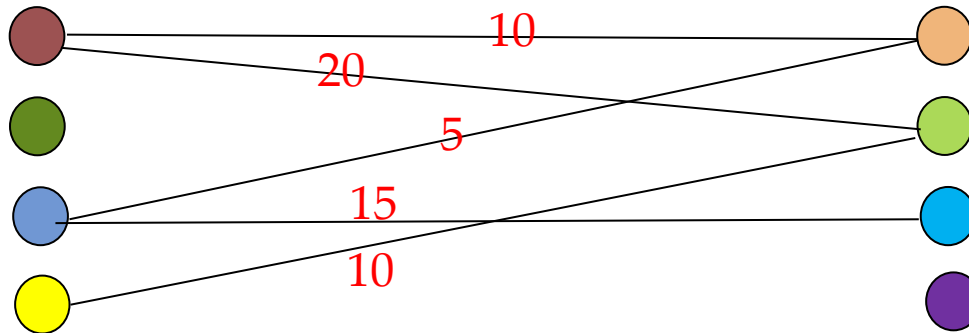
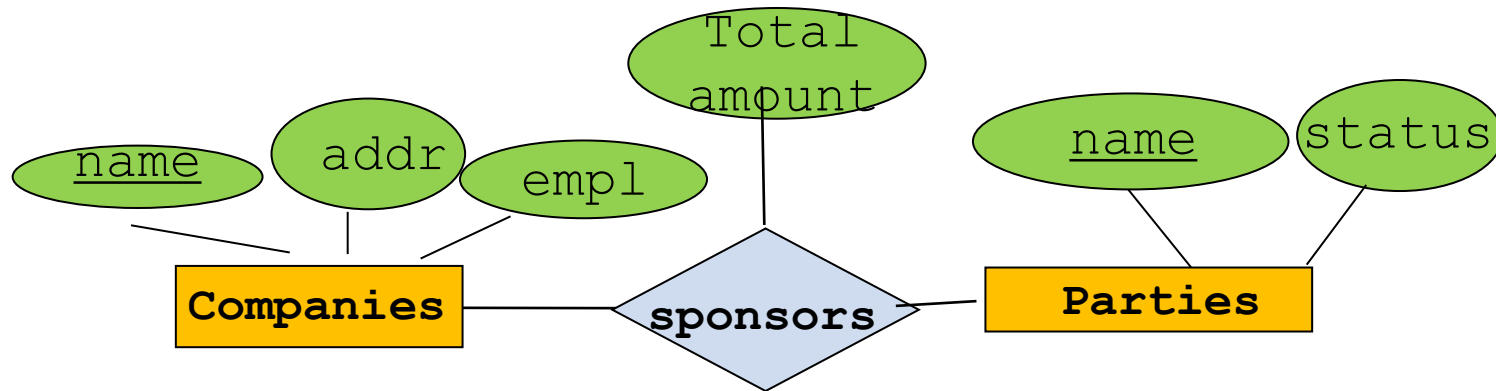
Correct

Many - Many



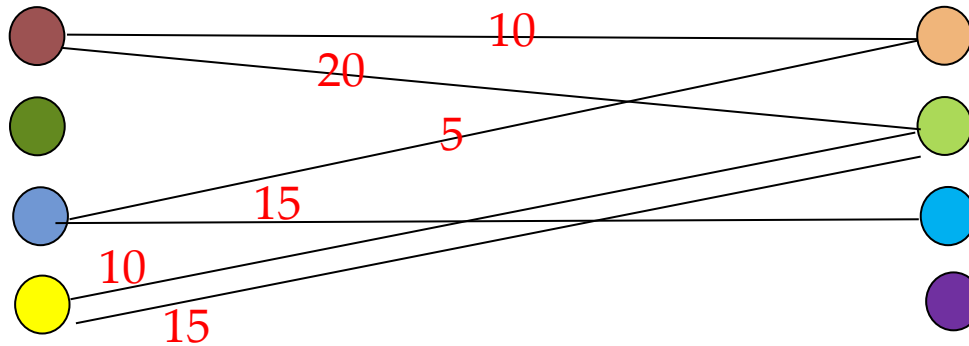
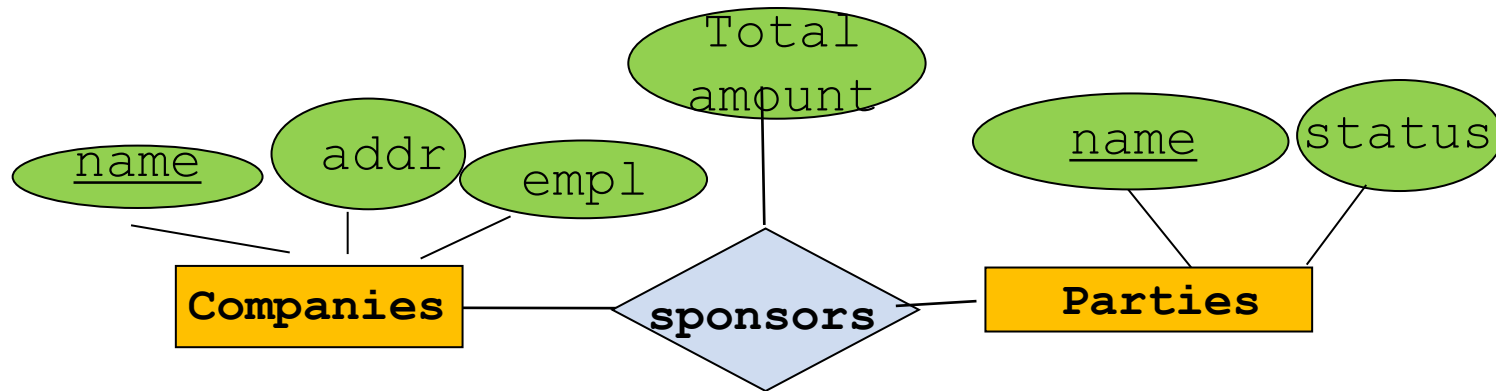
Correct or incorrect?

Many - Many



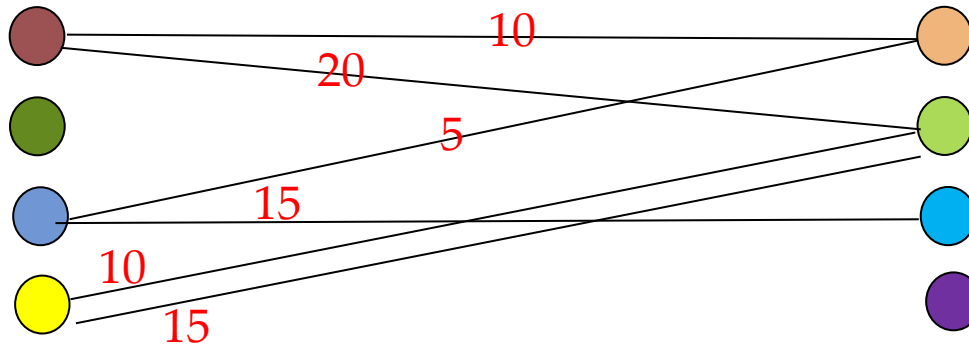
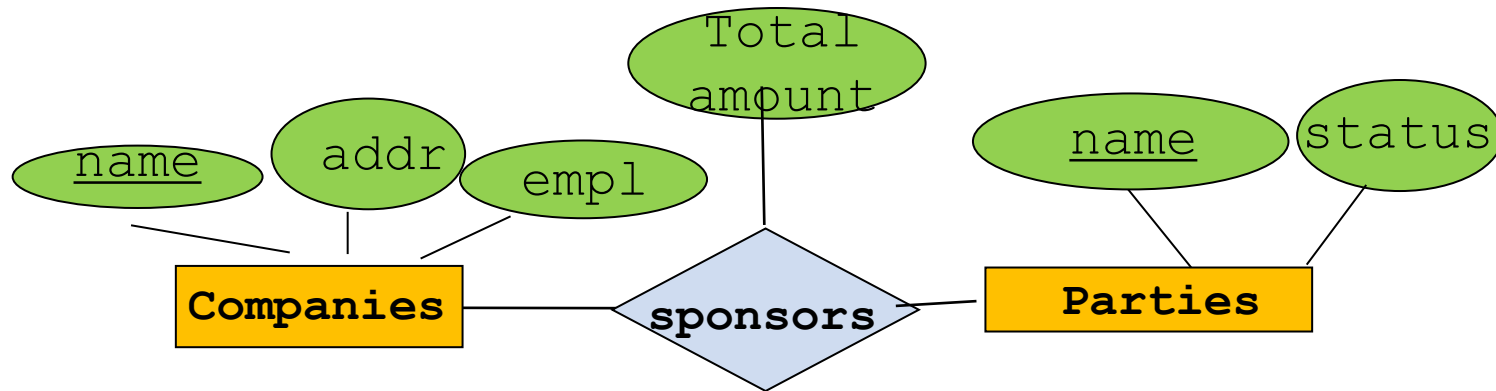
Correct

Many - Many



Correct or incorrect?

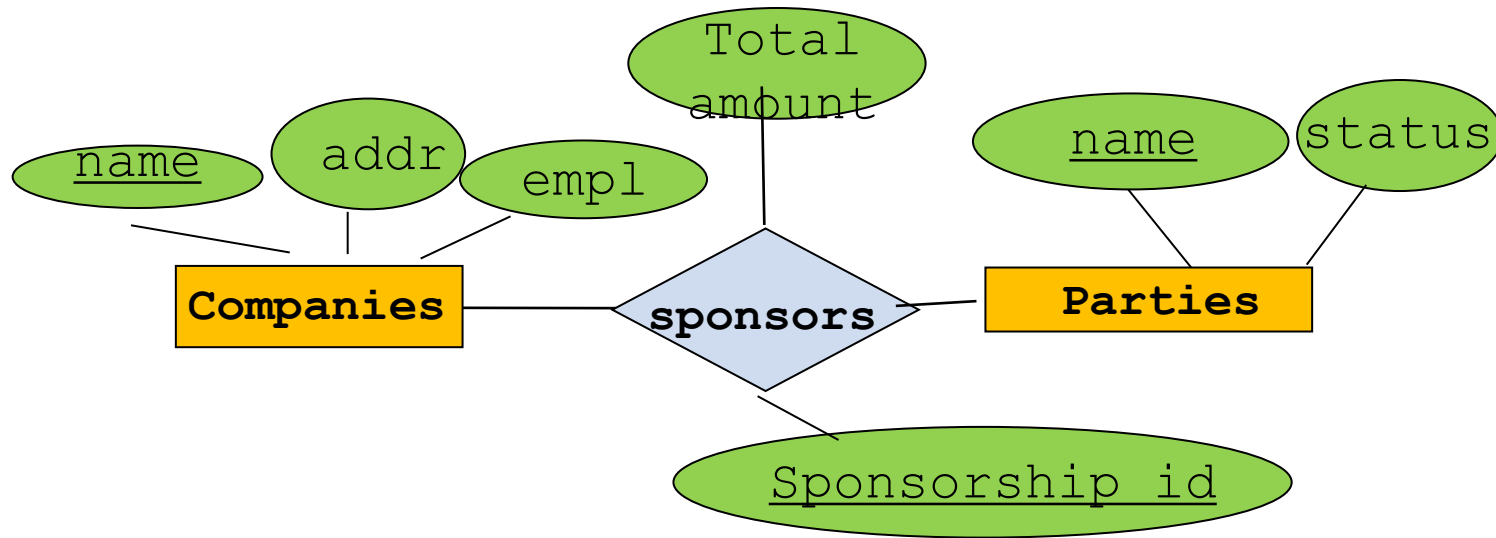
Many - Many



Incorrect

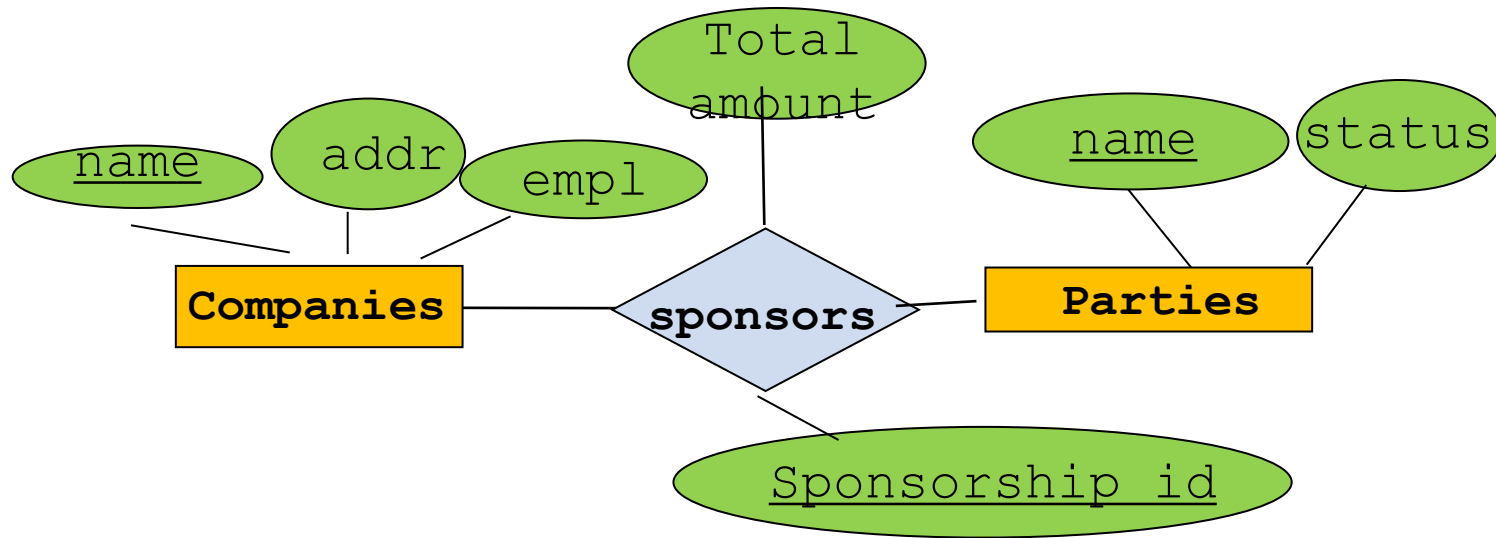
● ● Are involved twice in the same relationship

Many - Many



Correct or incorrect?

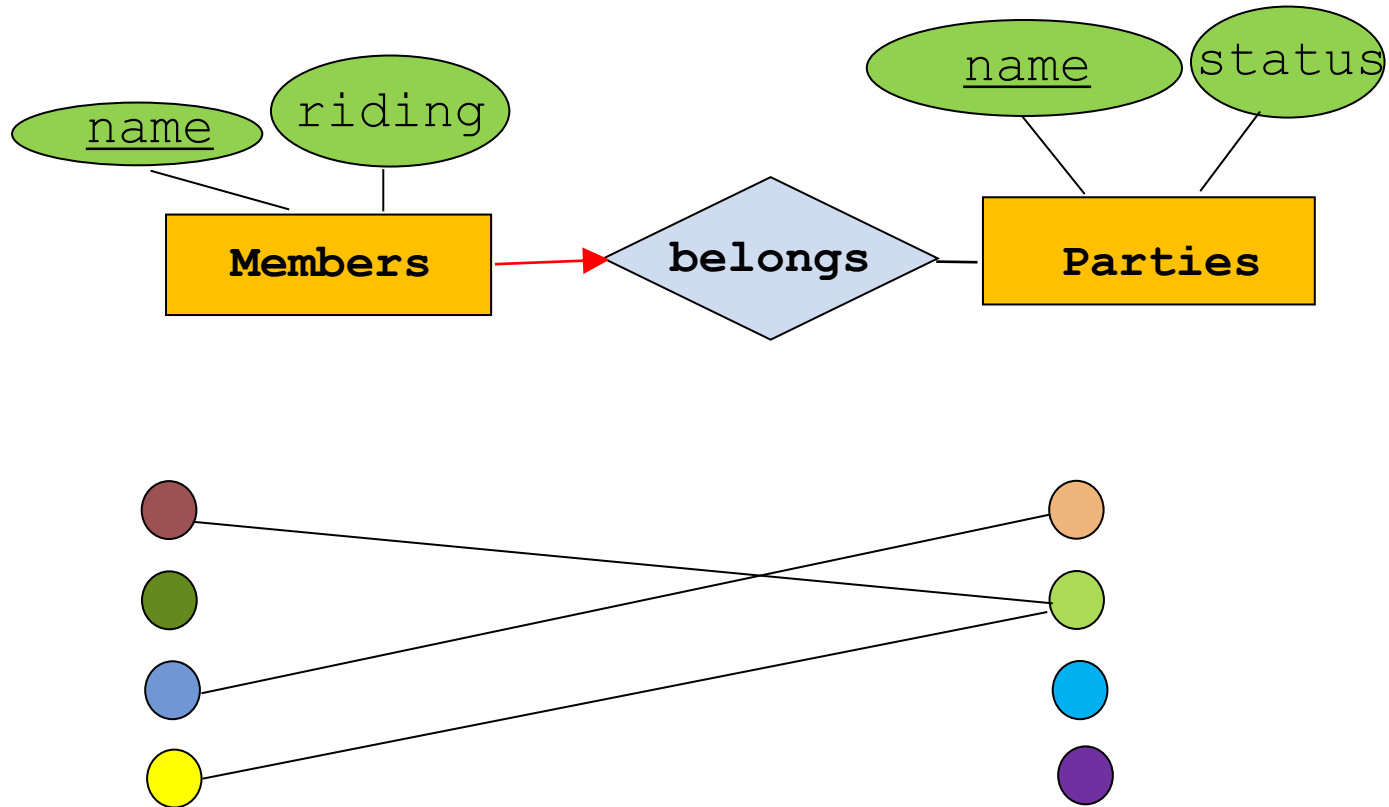
Many - Many



Incorrect

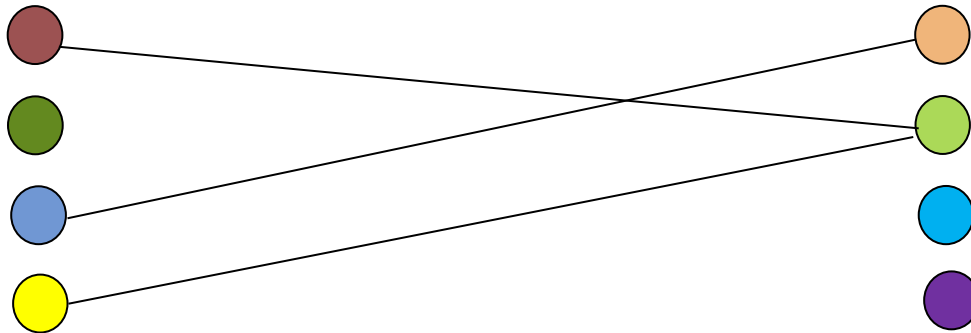
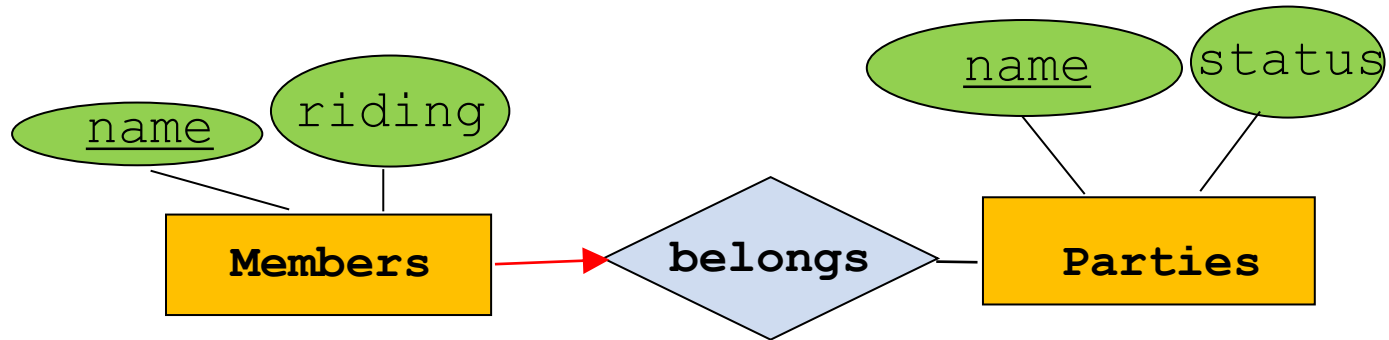
Relationships cannot have keys

Key-constraints: one-many, many-one



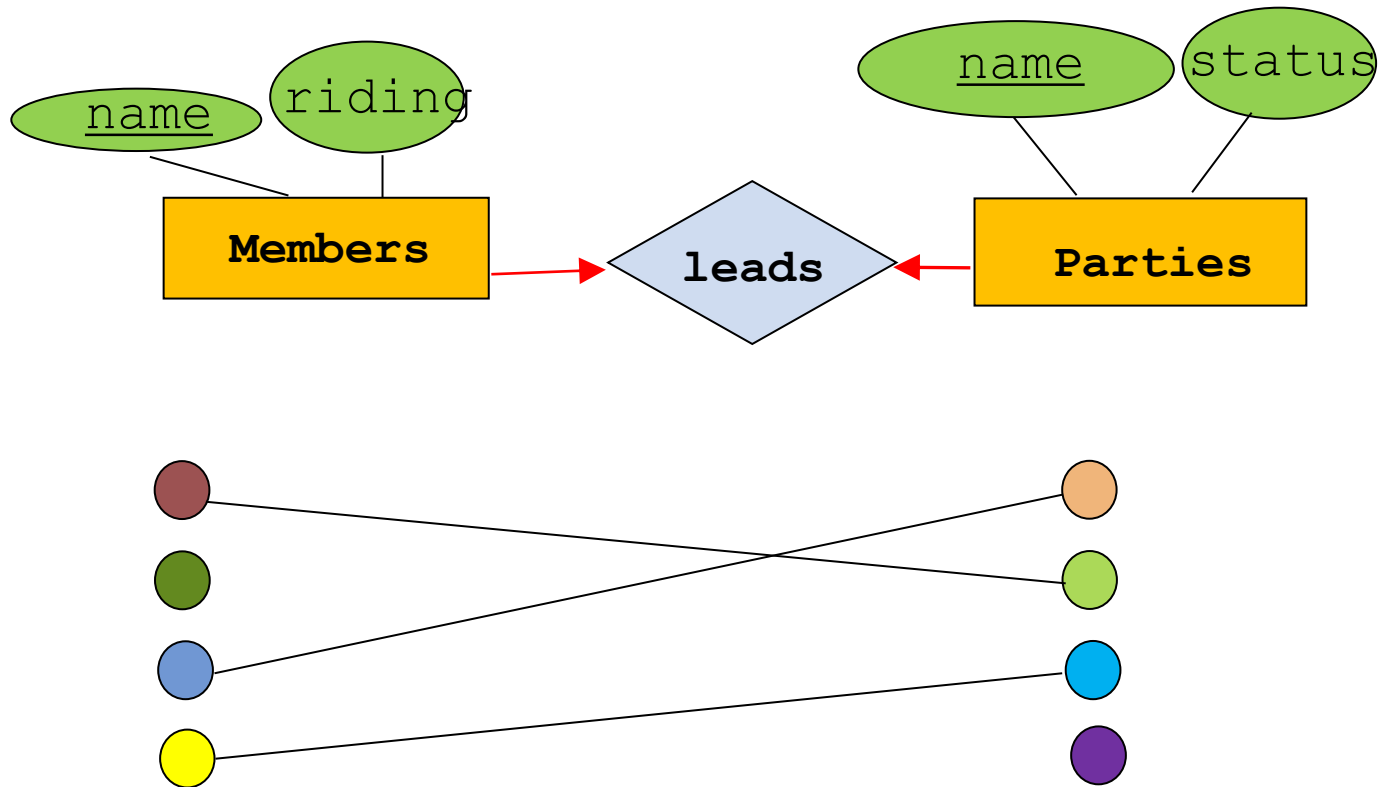
Correct or incorrect?

Key-constraints: one-many, many-one



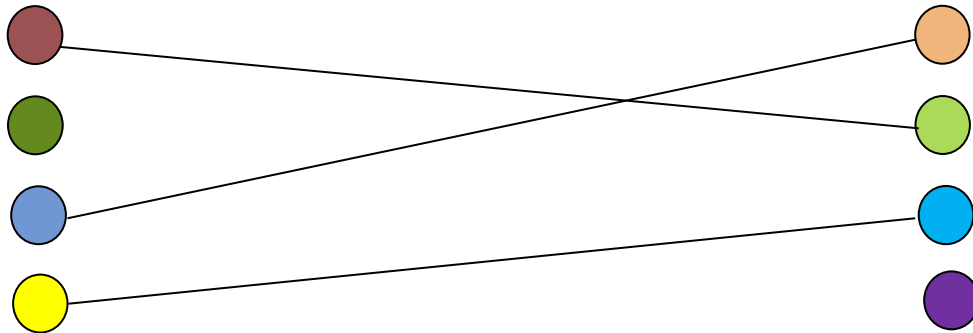
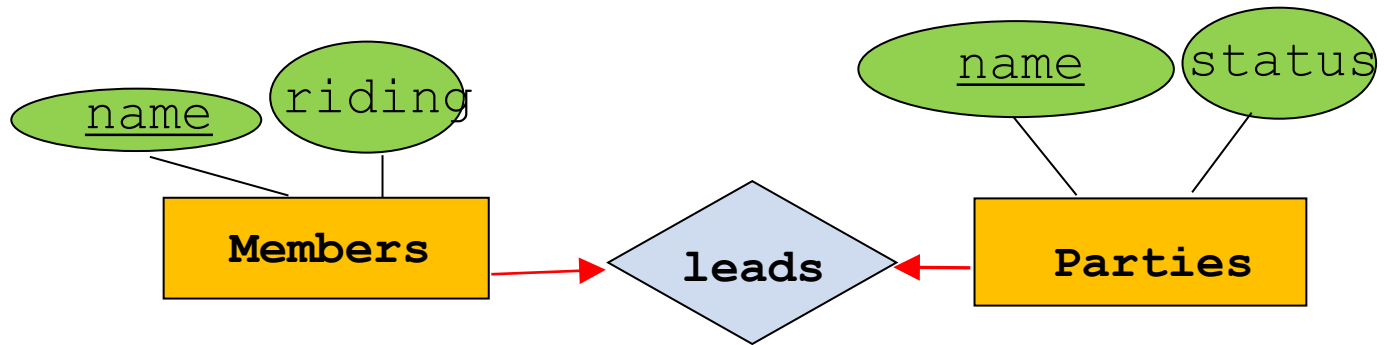
Correct

one-one



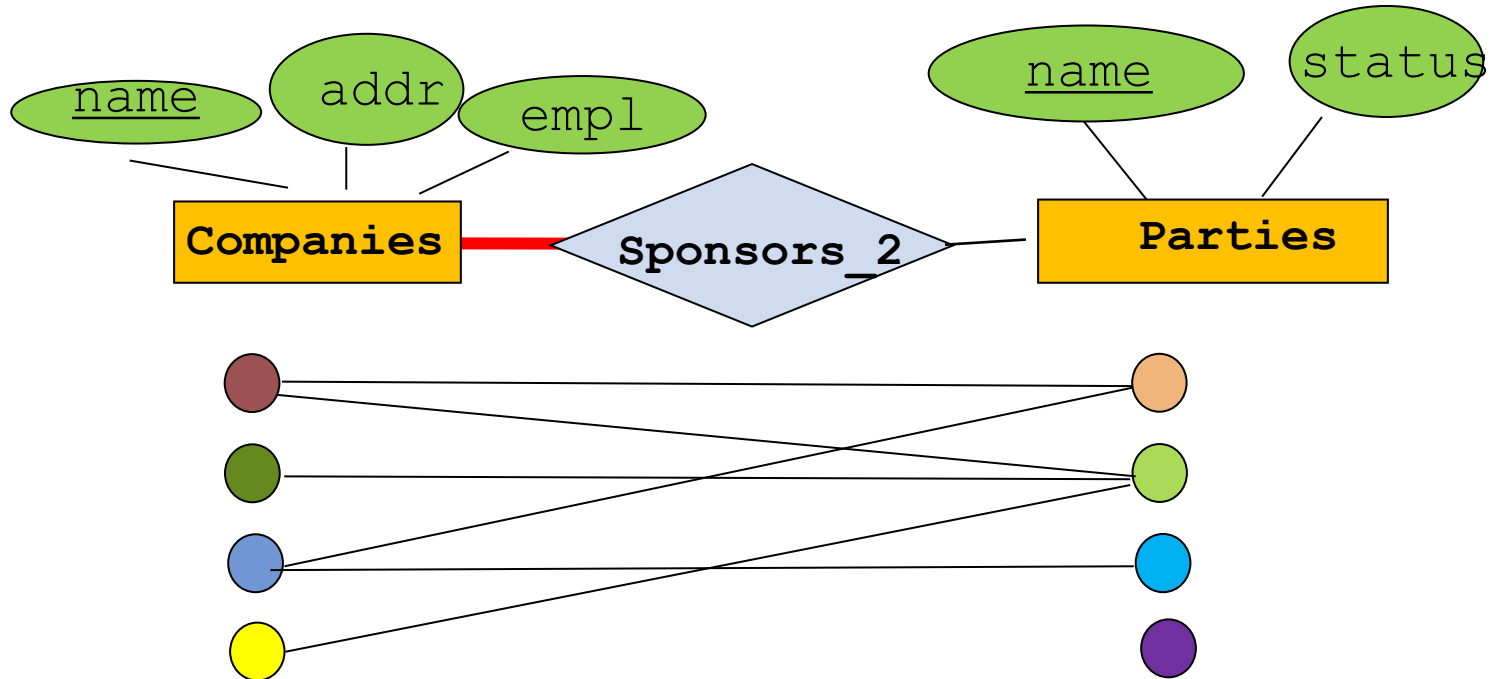
Correct or incorrect?

one-one



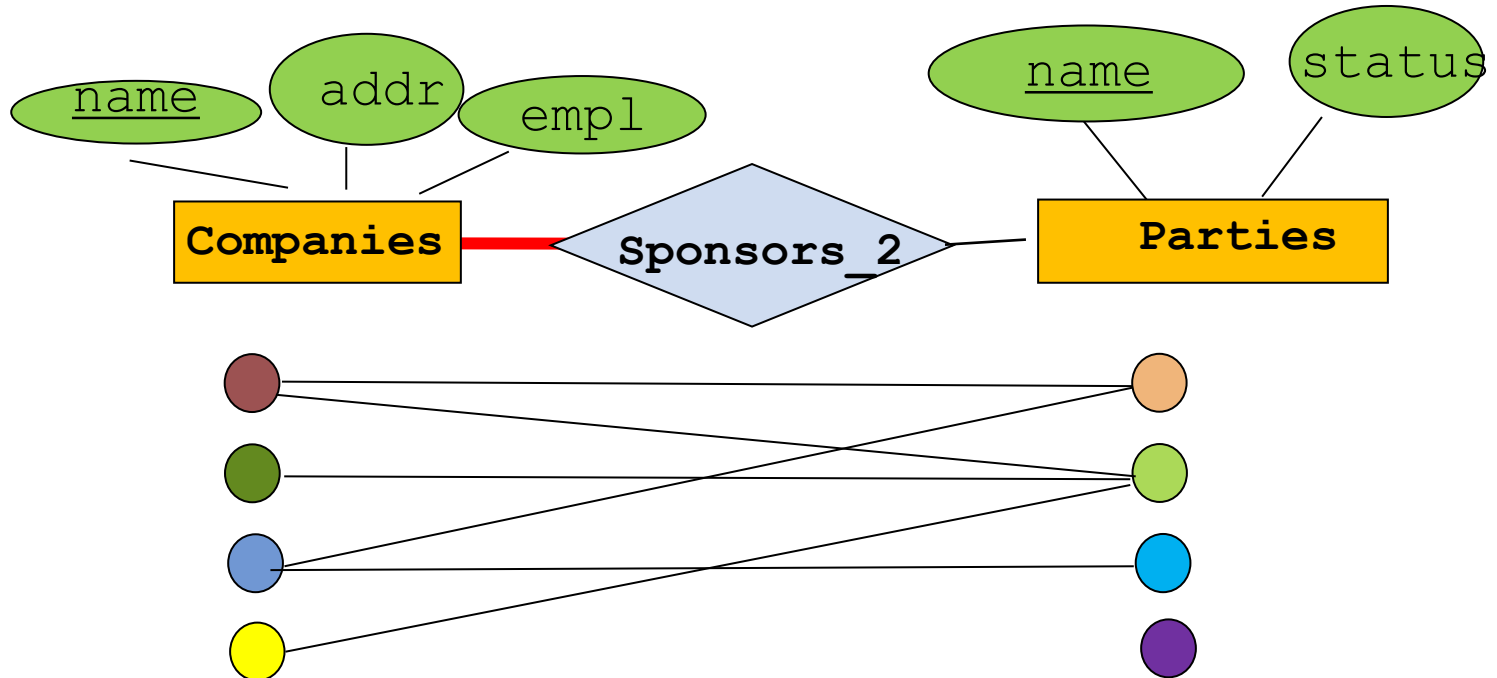
Correct

Participation Constraints



Correct or incorrect?

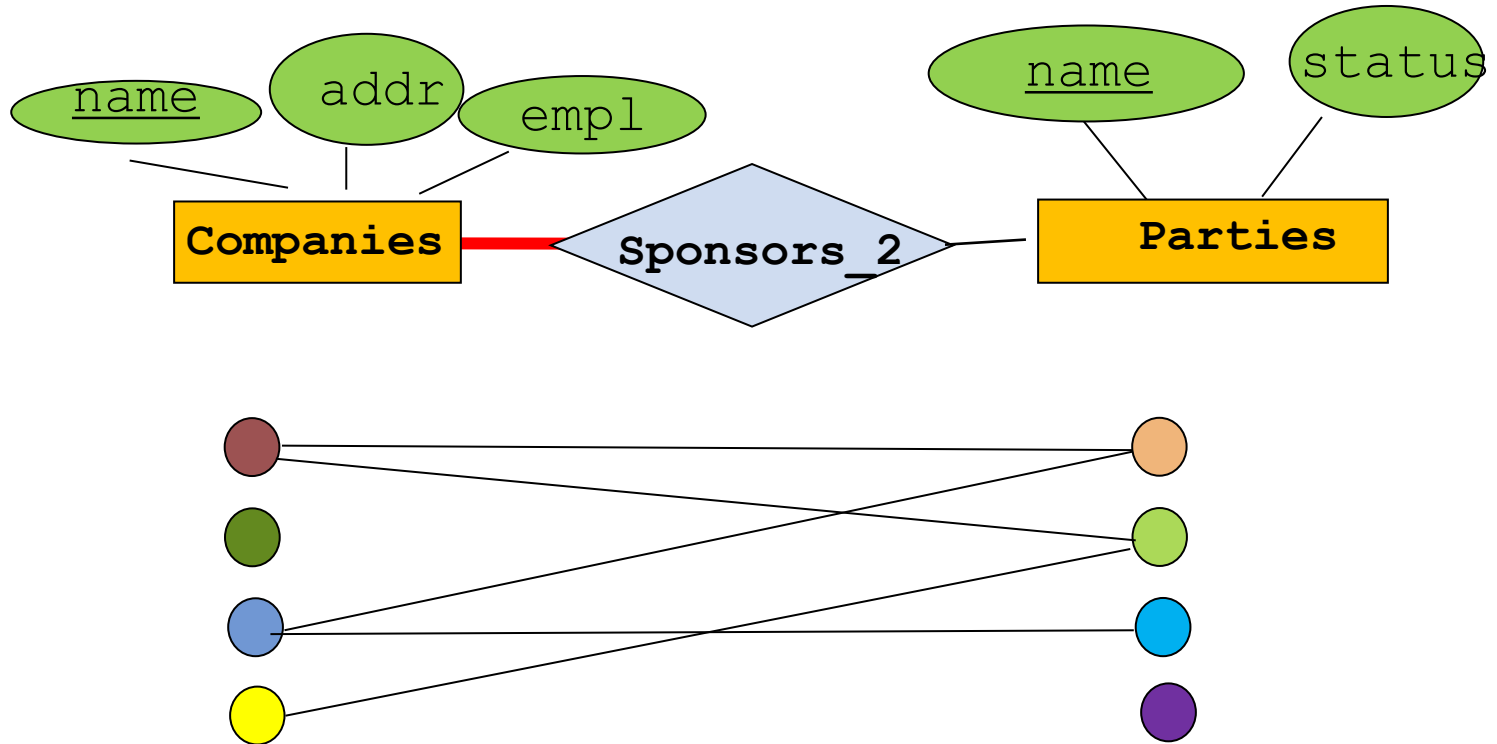
Participation Constraints



Correct

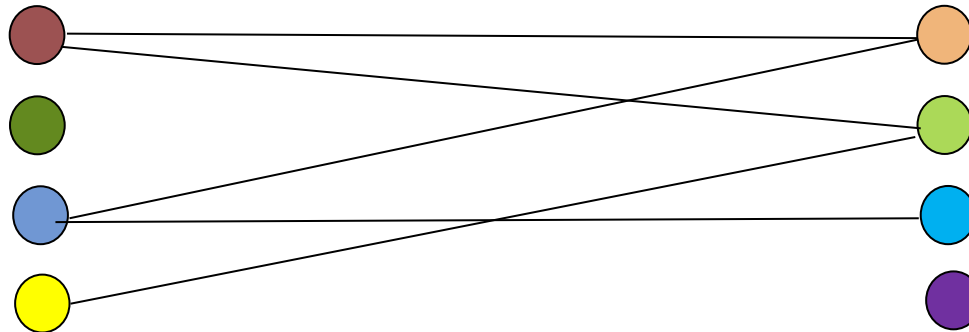
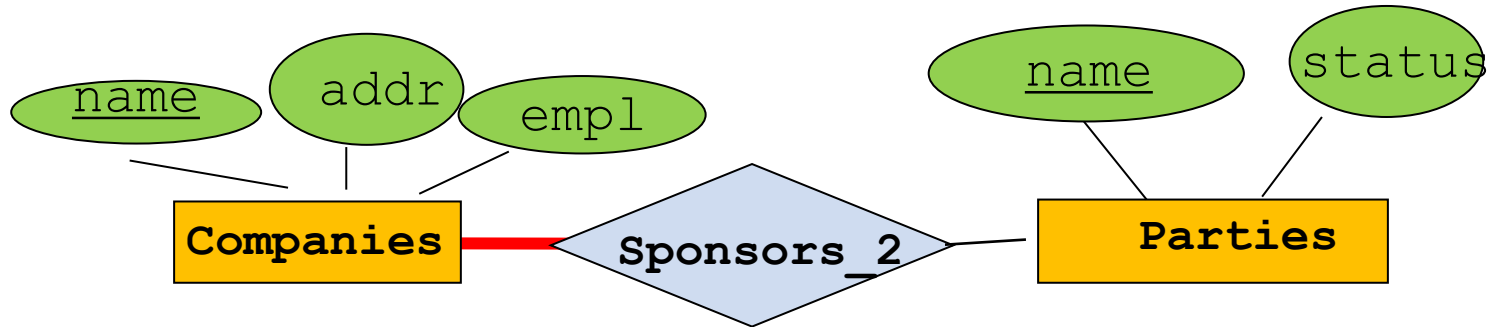
All entities in Companies are participating in the relationship. There is not participation constraint on Parties. Hence ● need not participate in the relationship.

Participation Constraints



Correct or incorrect?

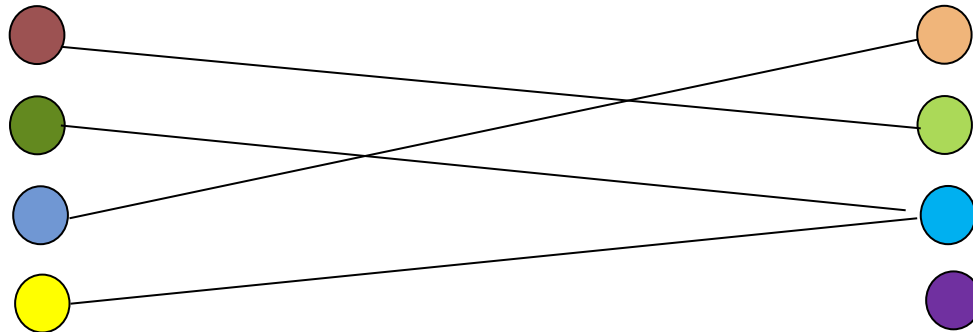
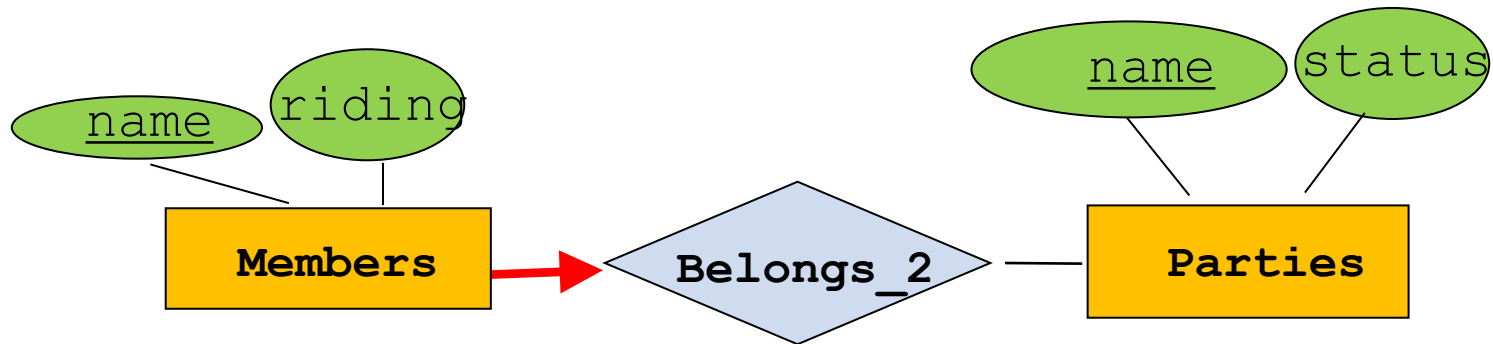
Participation Constraints



Incorrect

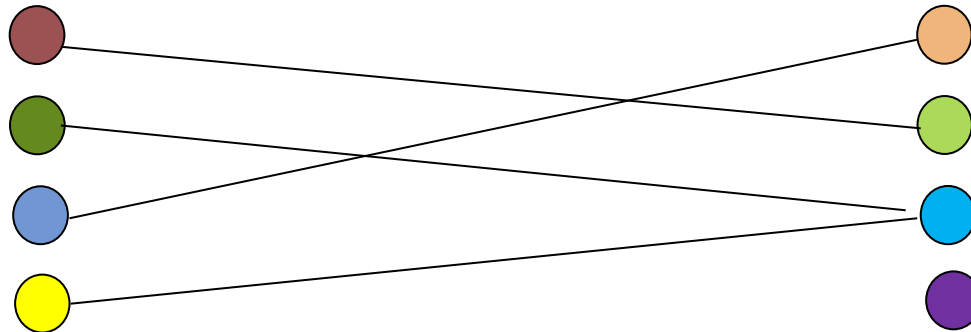
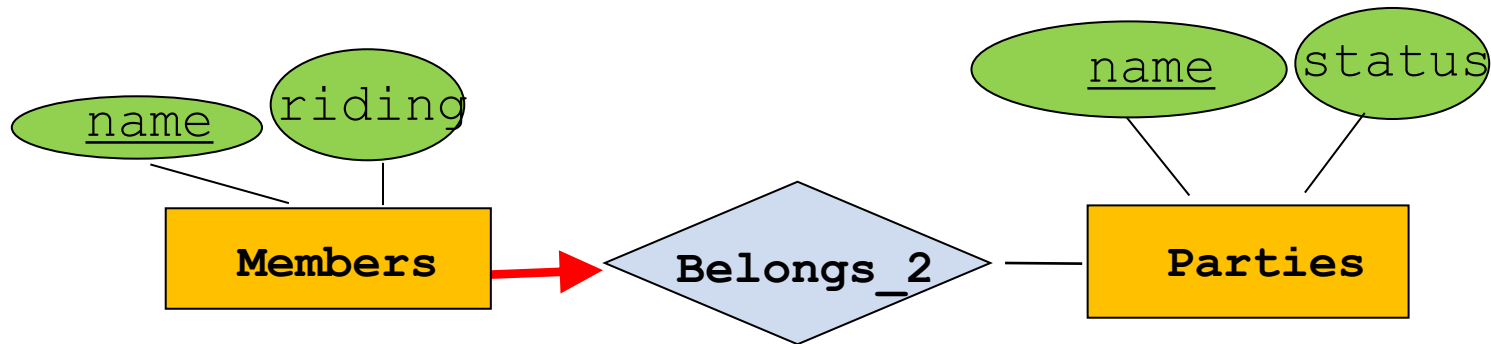
● Is not participating in the relationship

Key+Participation Constraints



Correct or incorrect?

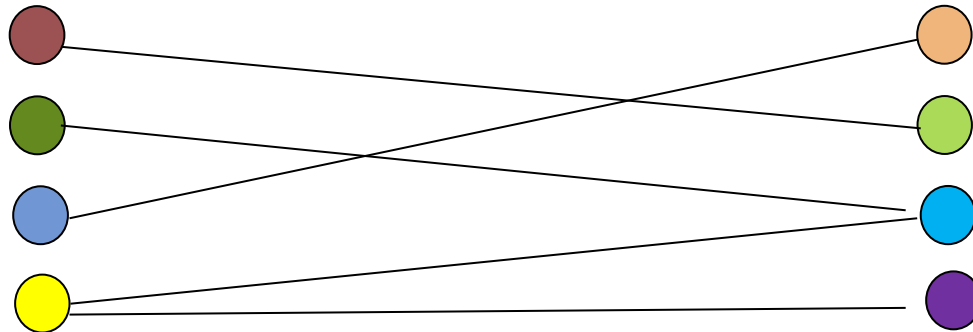
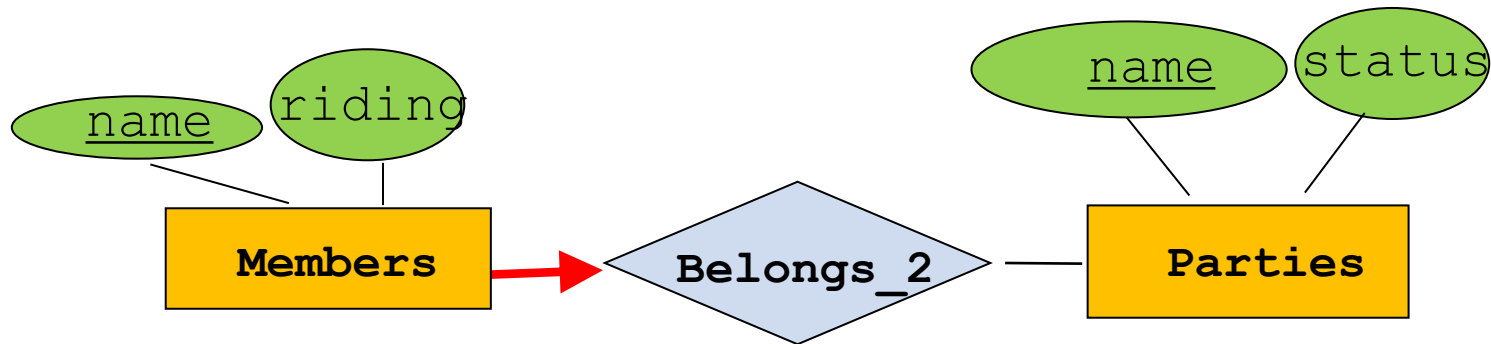
Key+Participation Constraints



Correct

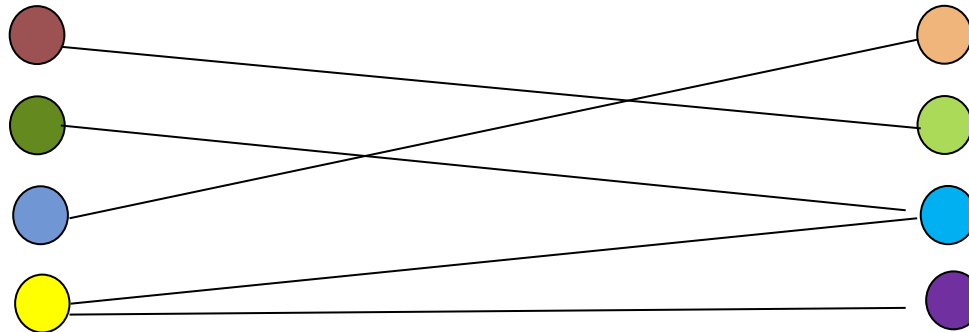
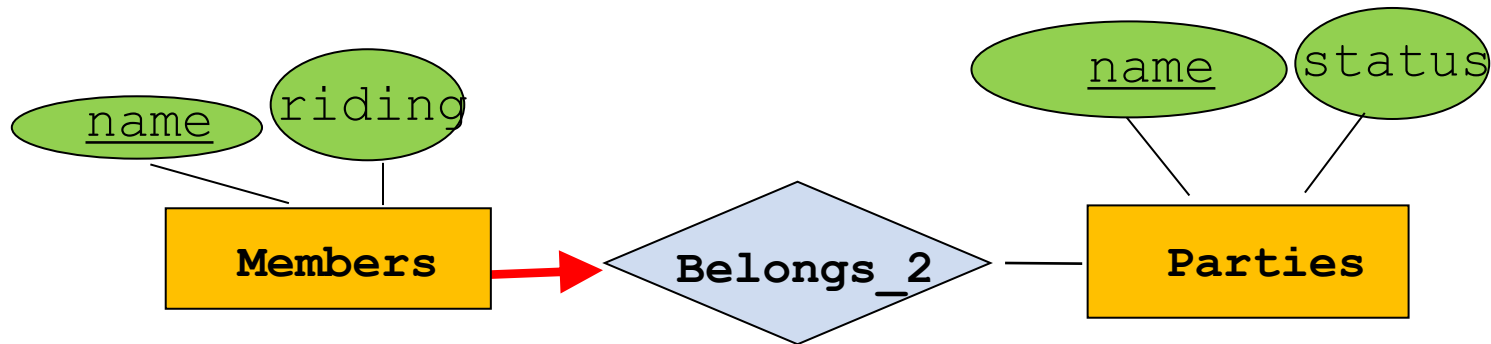
All entities in **Members** have exactly 1 involvement in the relationship

Key+Participation Constraints



Correct or incorrect?

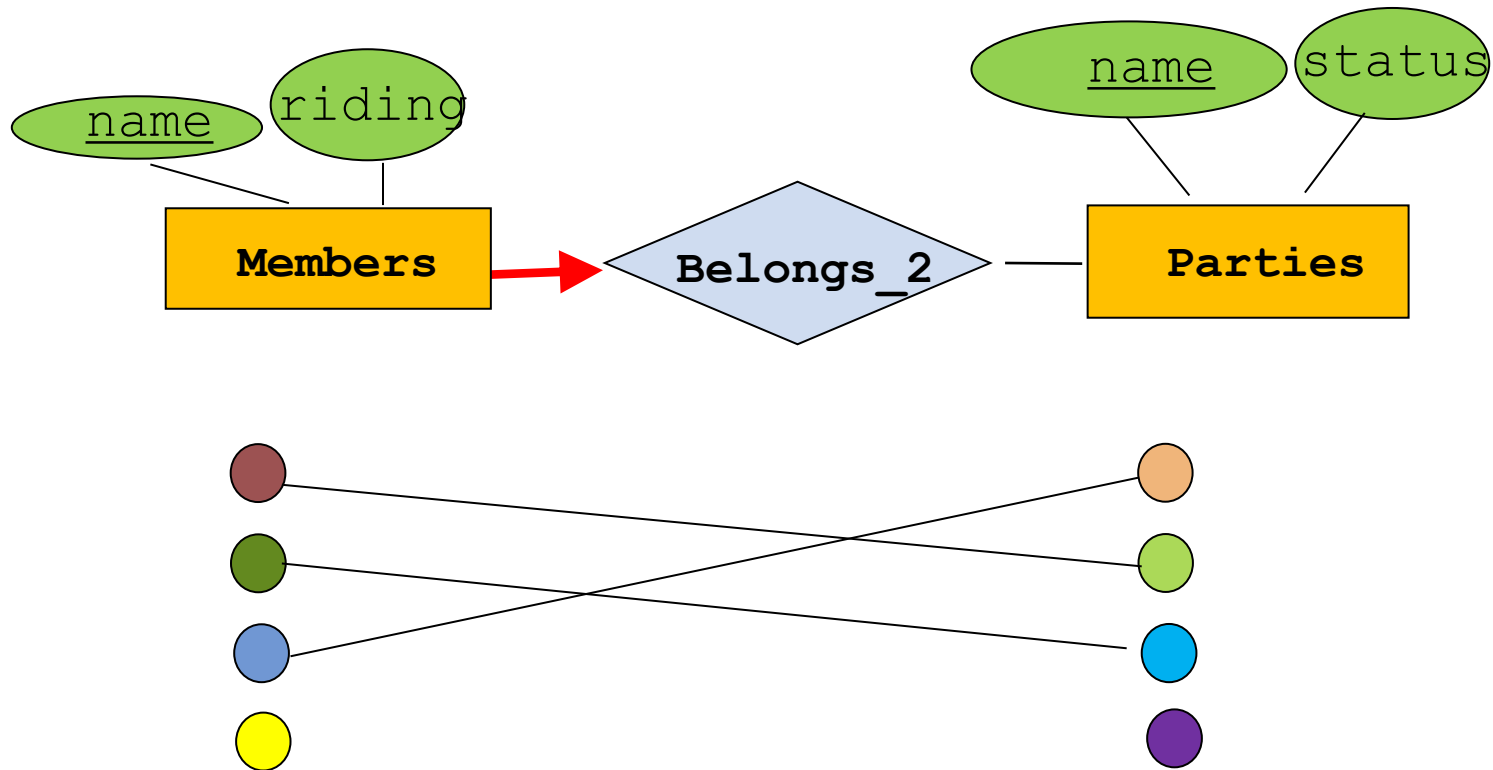
Key+Participation Constraints



Incorrect

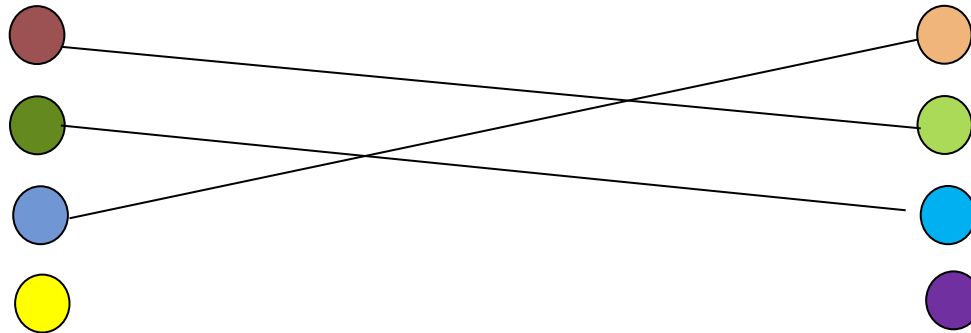
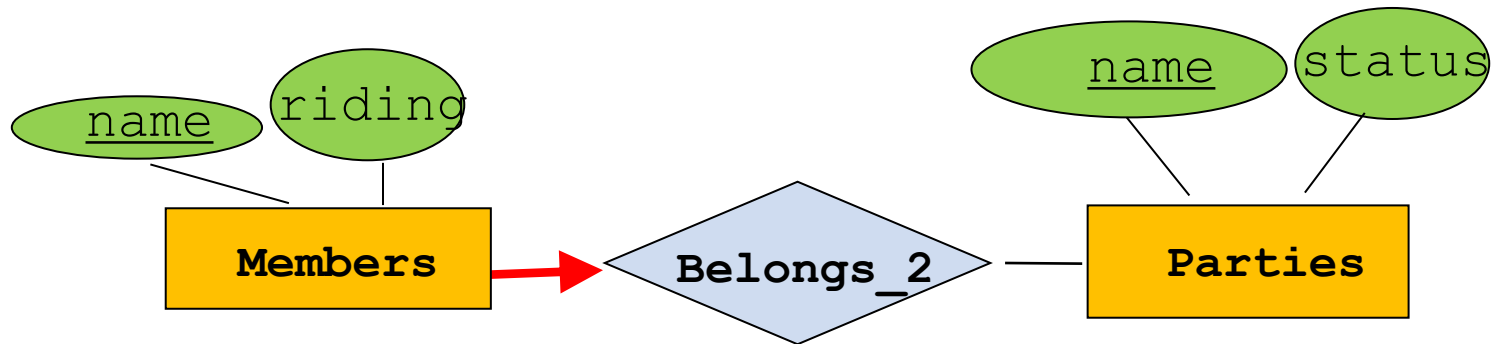
● is involved with two parties ● and ● in the relationship

Key+Participation Constraints



Correct or incorrect?

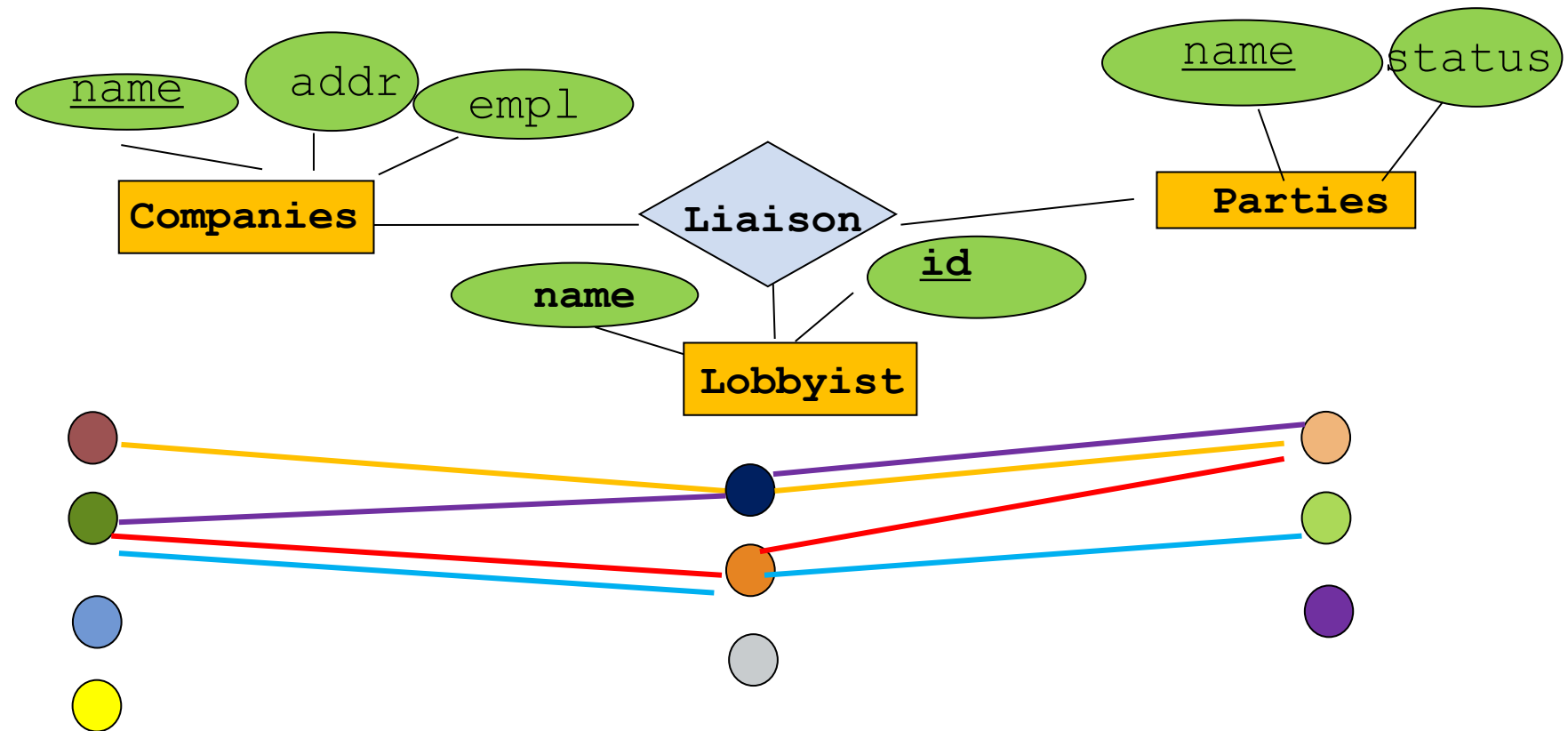
Key+Participation Constraints



Incorrect

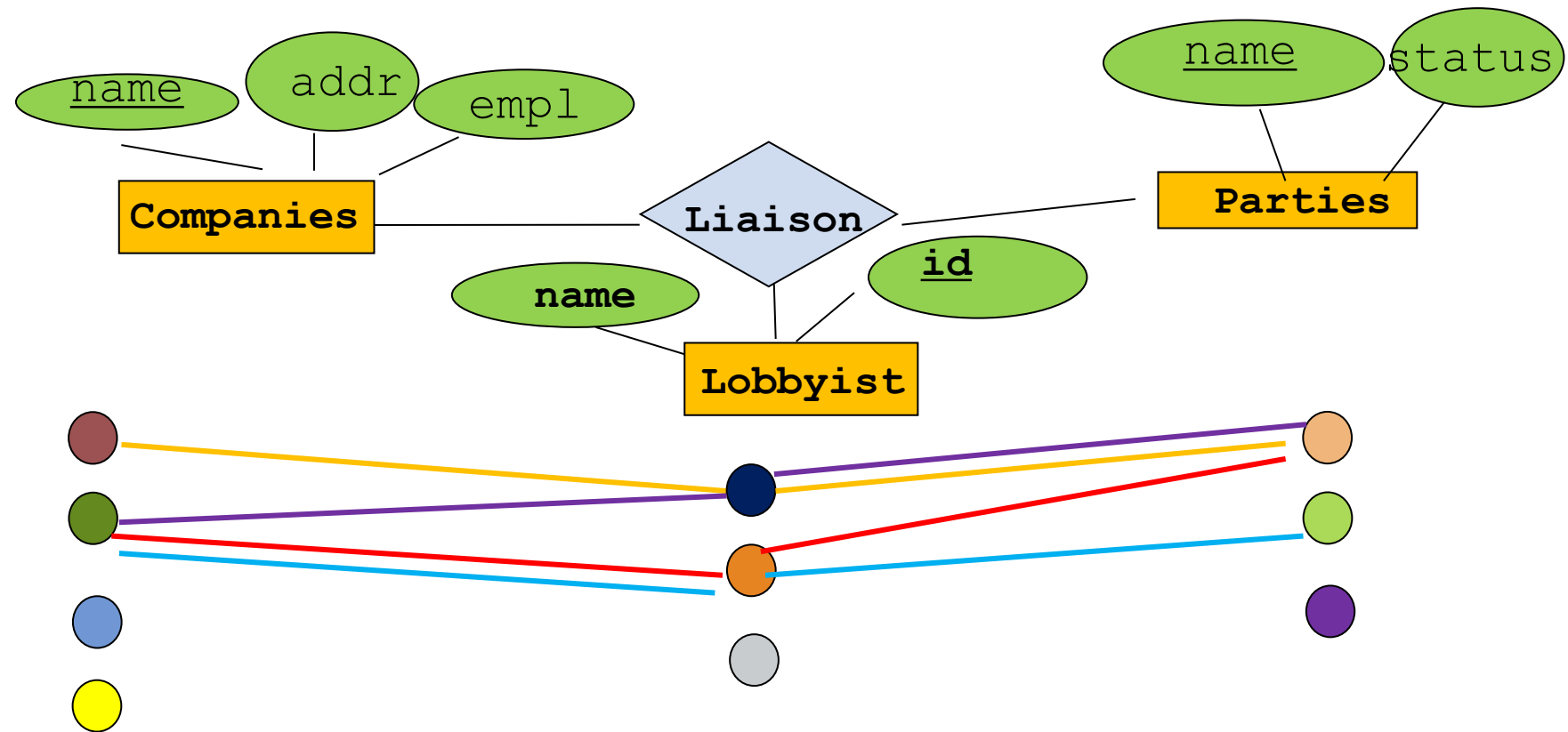
● is not involved in the relationship

Ternary Relationship



Correct or incorrect?

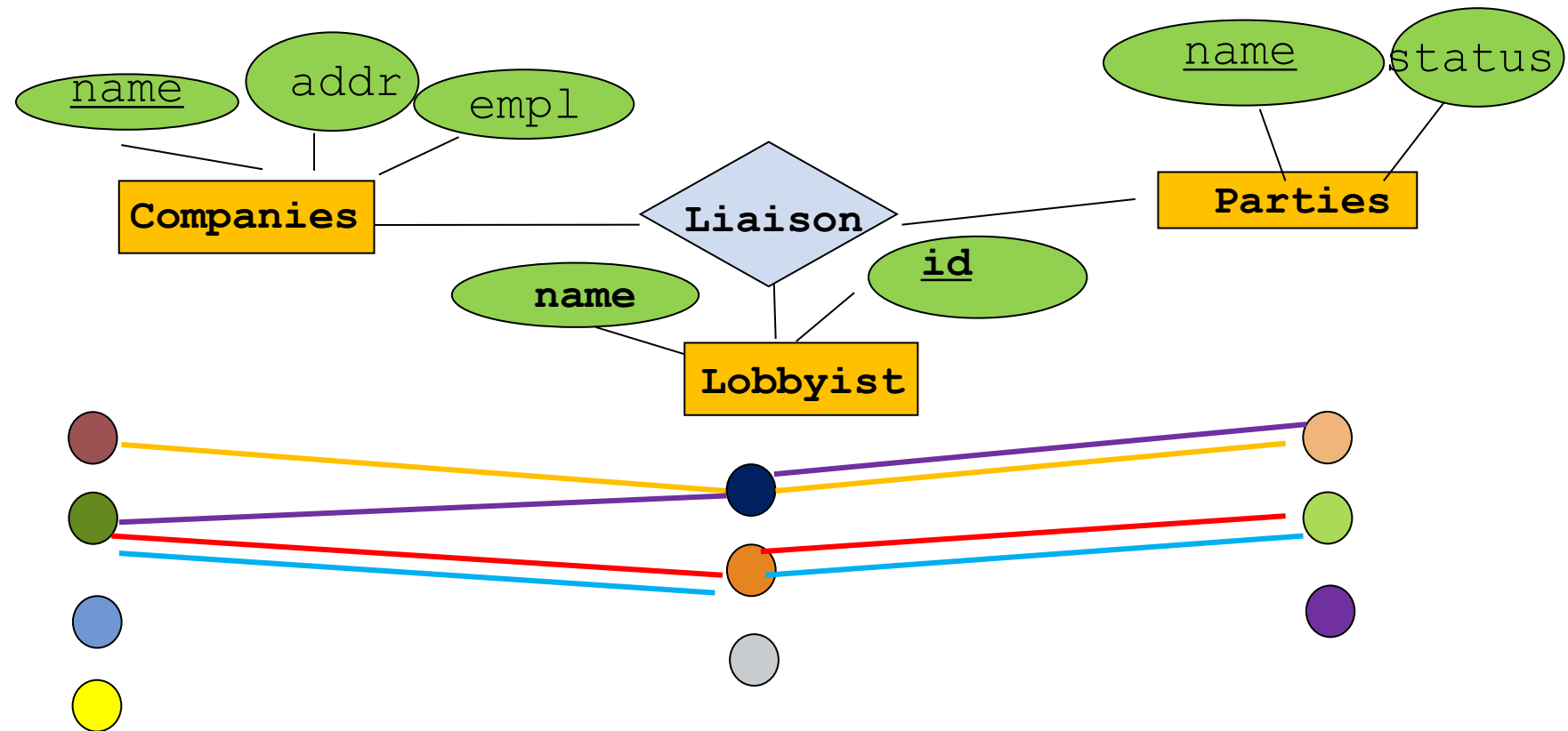
Ternary Relationship



Correct

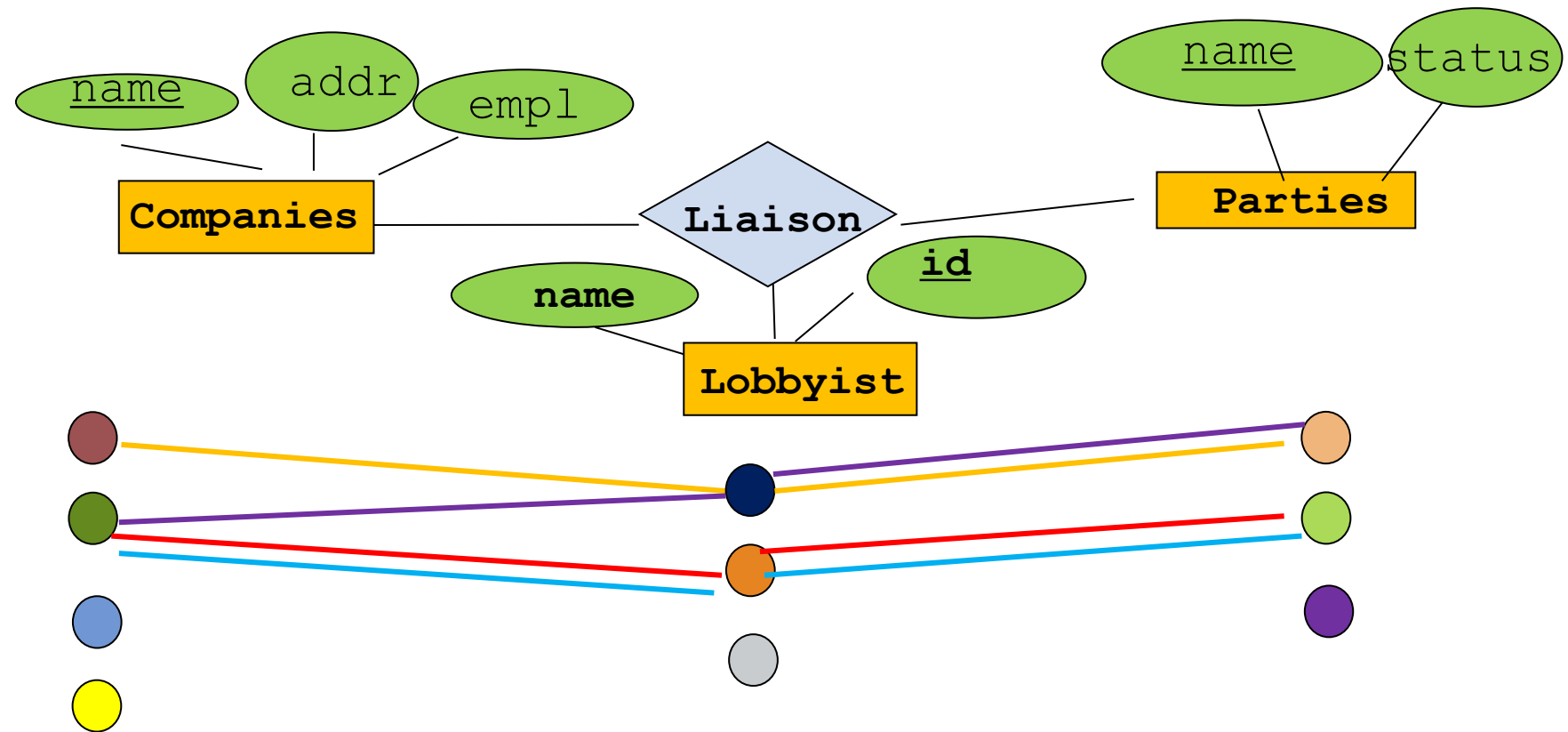
Although ● and ● are involved twice in the relationship, once its with ● and the other time with ●, thus making each combination of the three entities unique.

Ternary Relationship



Correct or incorrect?

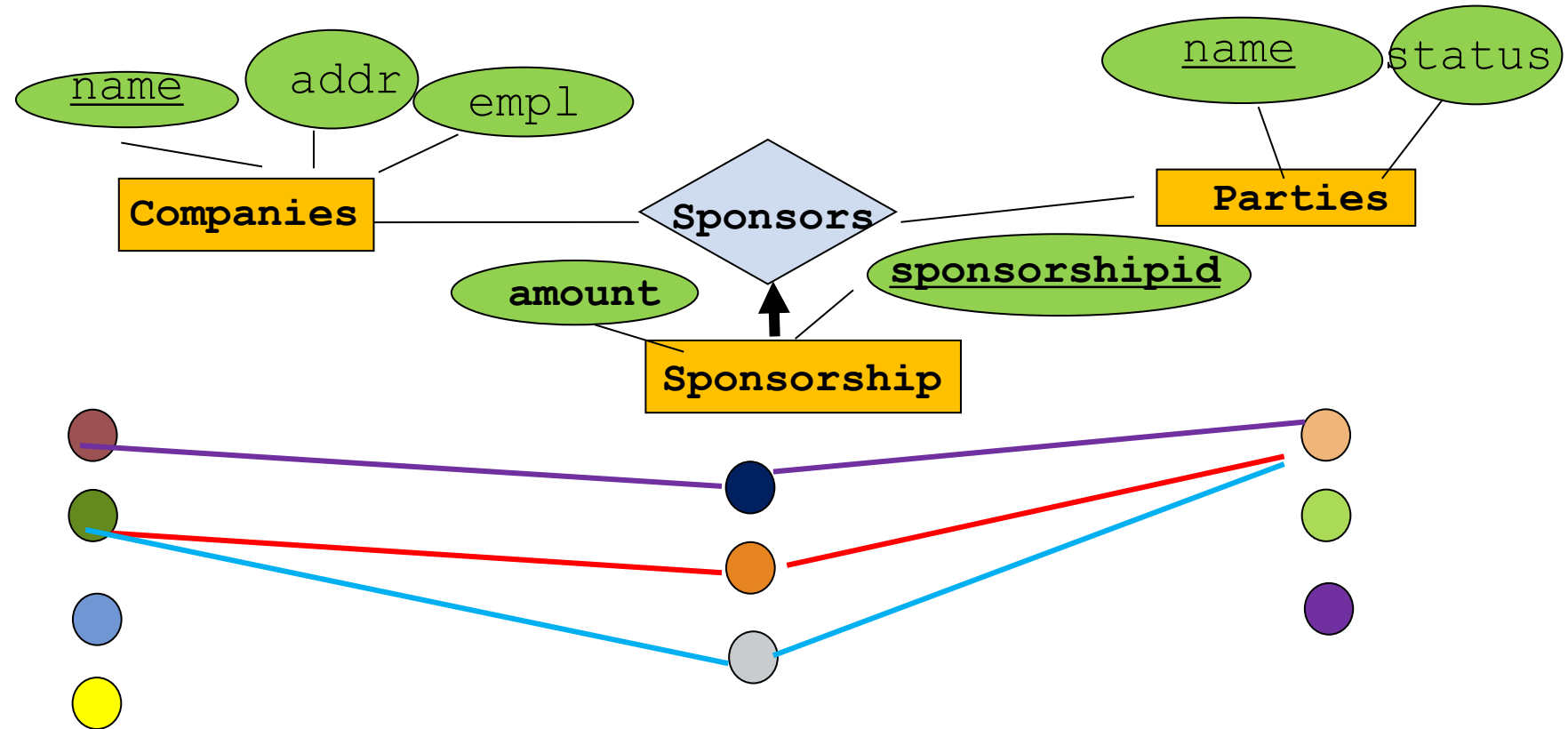
Ternary Relationship



incorrect

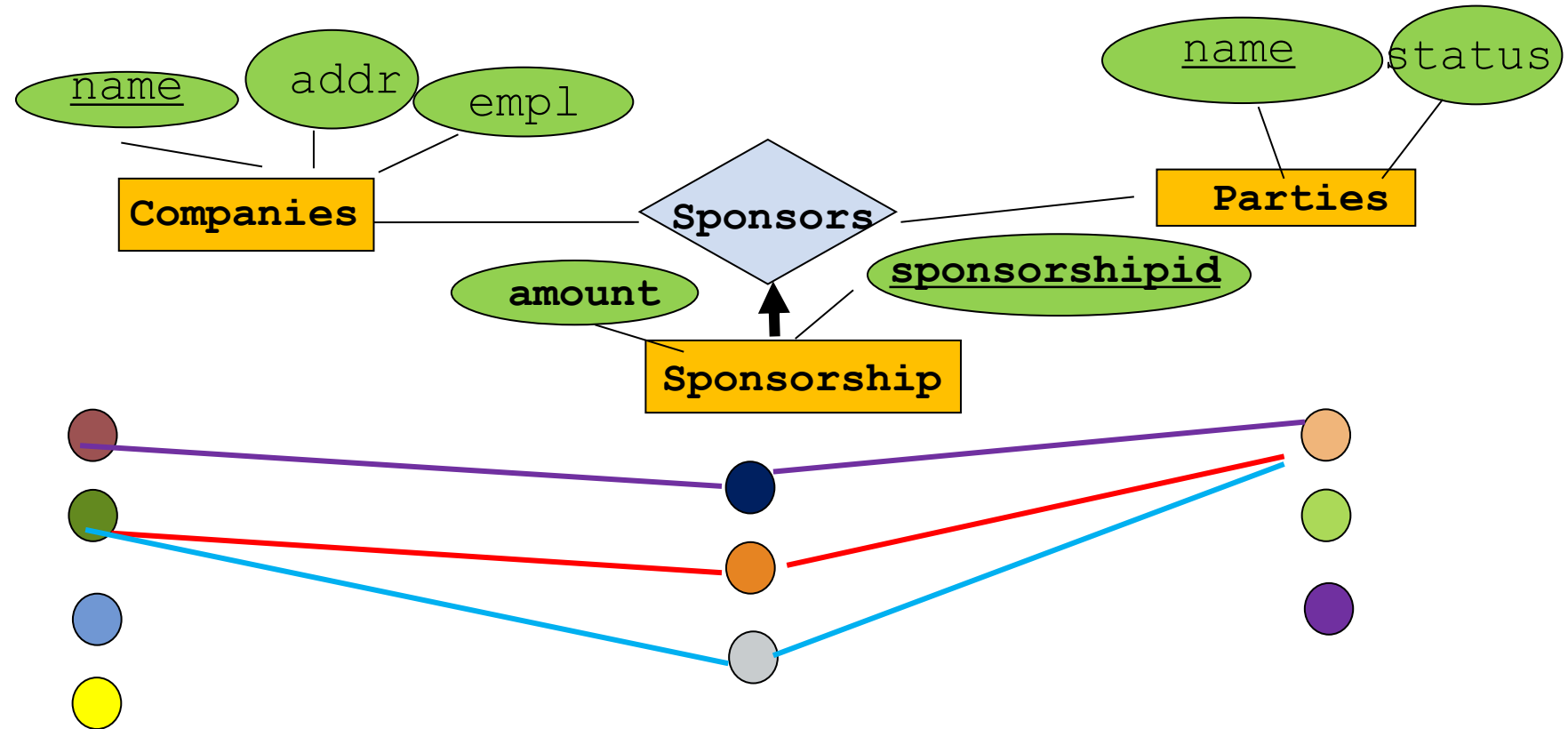
The combination ●, ●, and ● are involved twice in the relationship, hence the combination is not unique.

Ternary Relationship + key+participation constraint



Correct or incorrect?

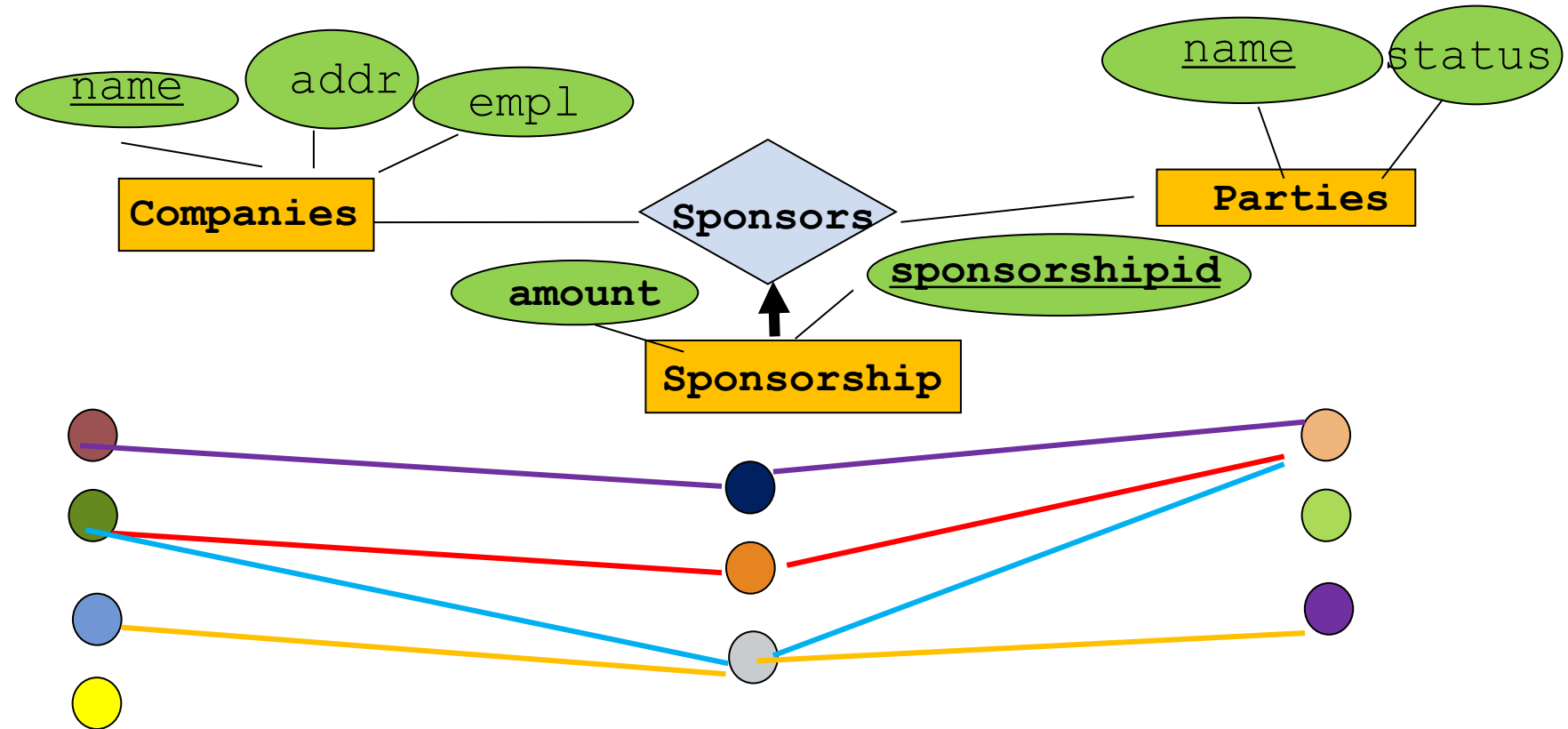
Ternary Relationship + key+participation constraint



Correct

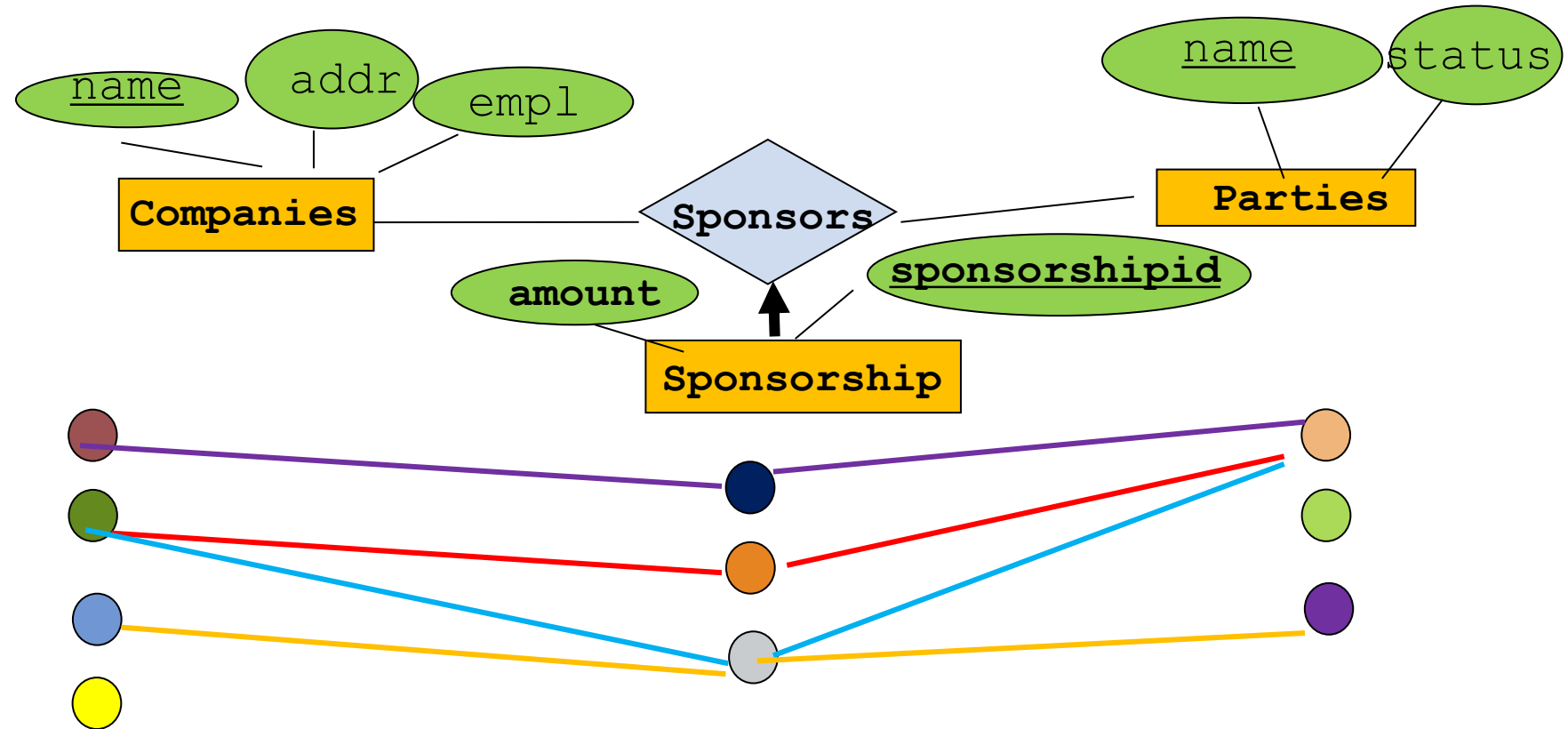
All entites in the sponsorship relationship is involved exactly once in the relationship.

Ternary Relationship + key+participation constraint



Correct or incorrect?

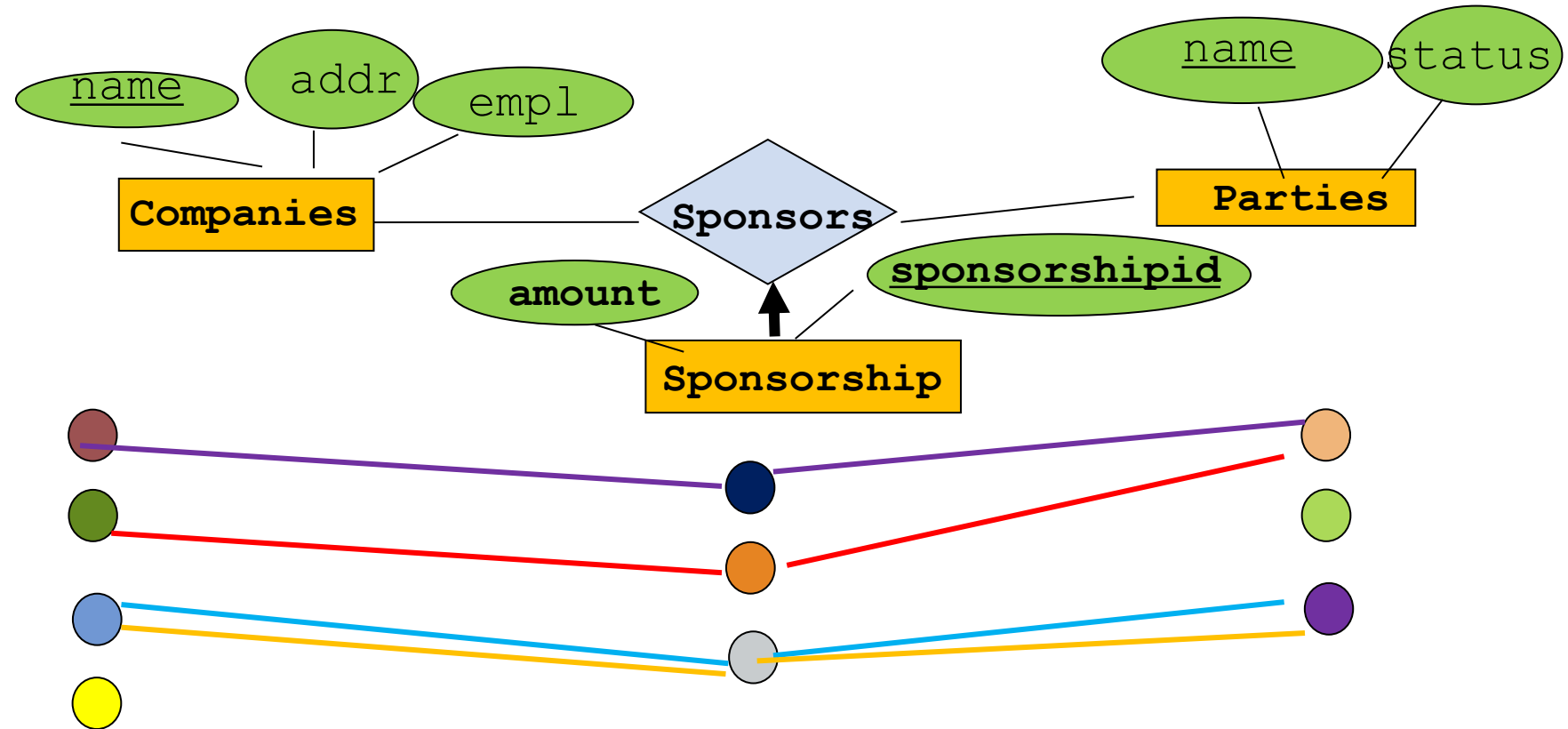
Ternary Relationship + key+participation constraint



Incorrect

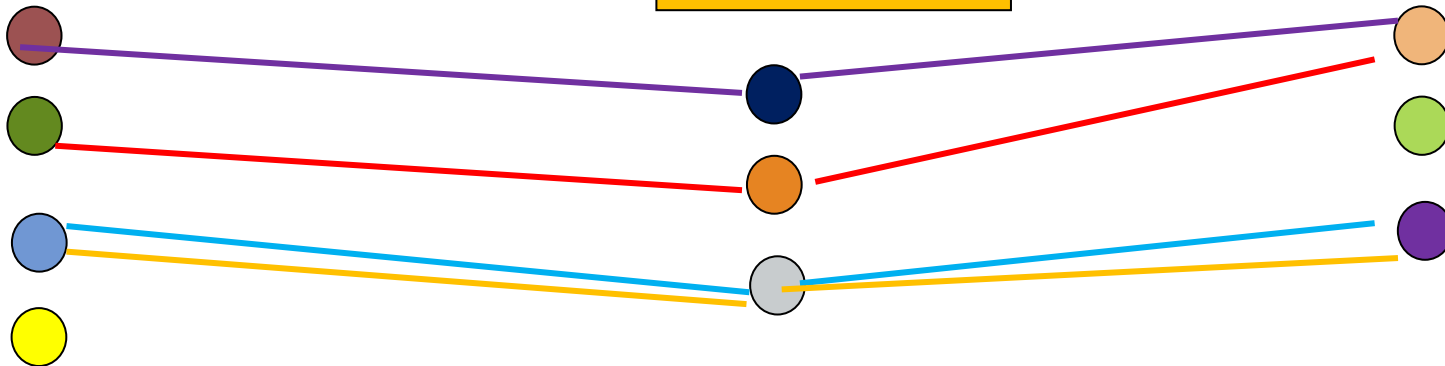
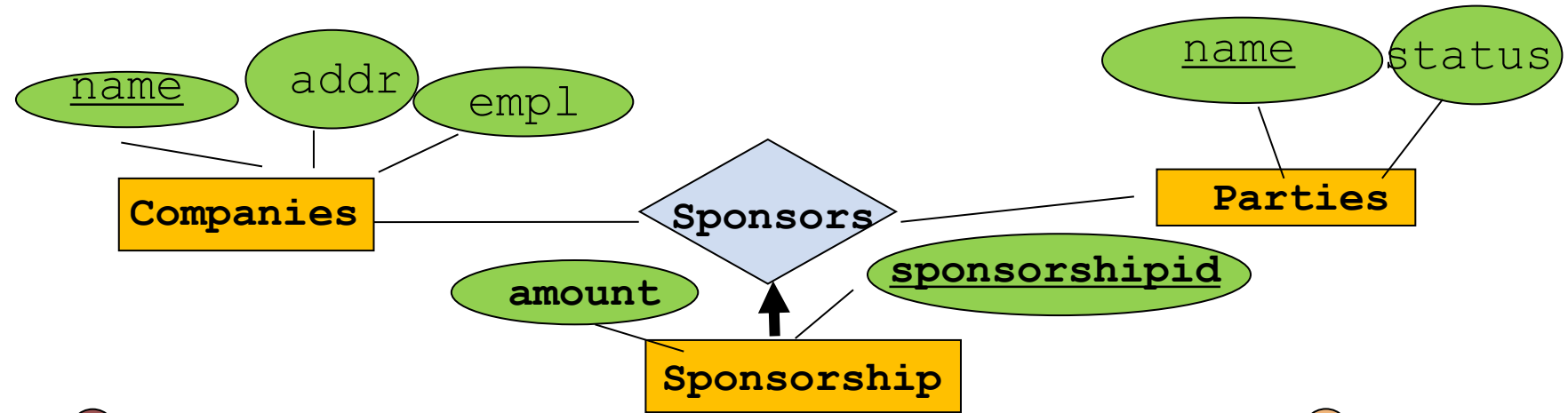
○ Is involved twice in the relationship. (violation of key constraint)

Ternary Relationship + key+participation constraint



Correct or incorrect?

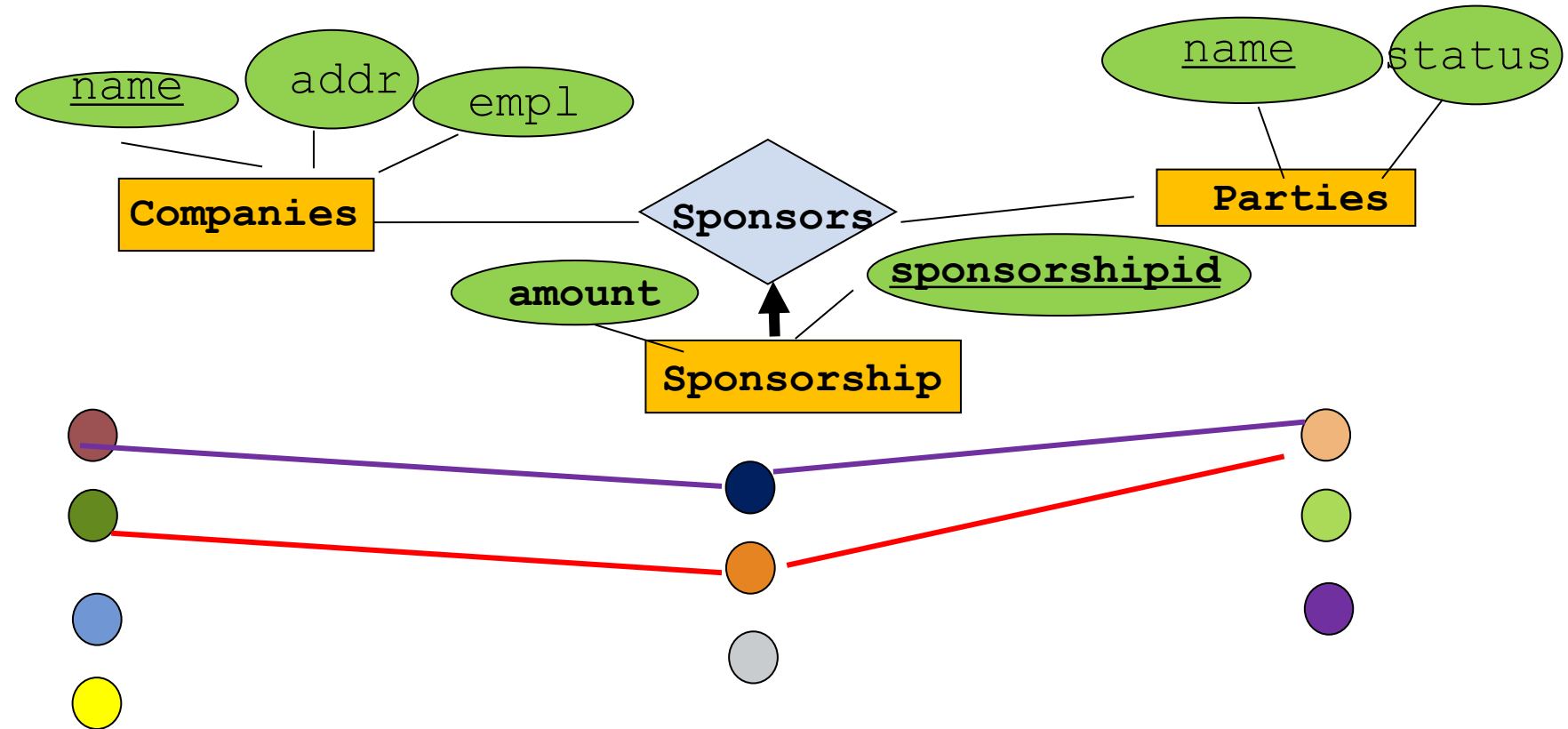
Ternary Relationship + key+participation constraint



incorrect

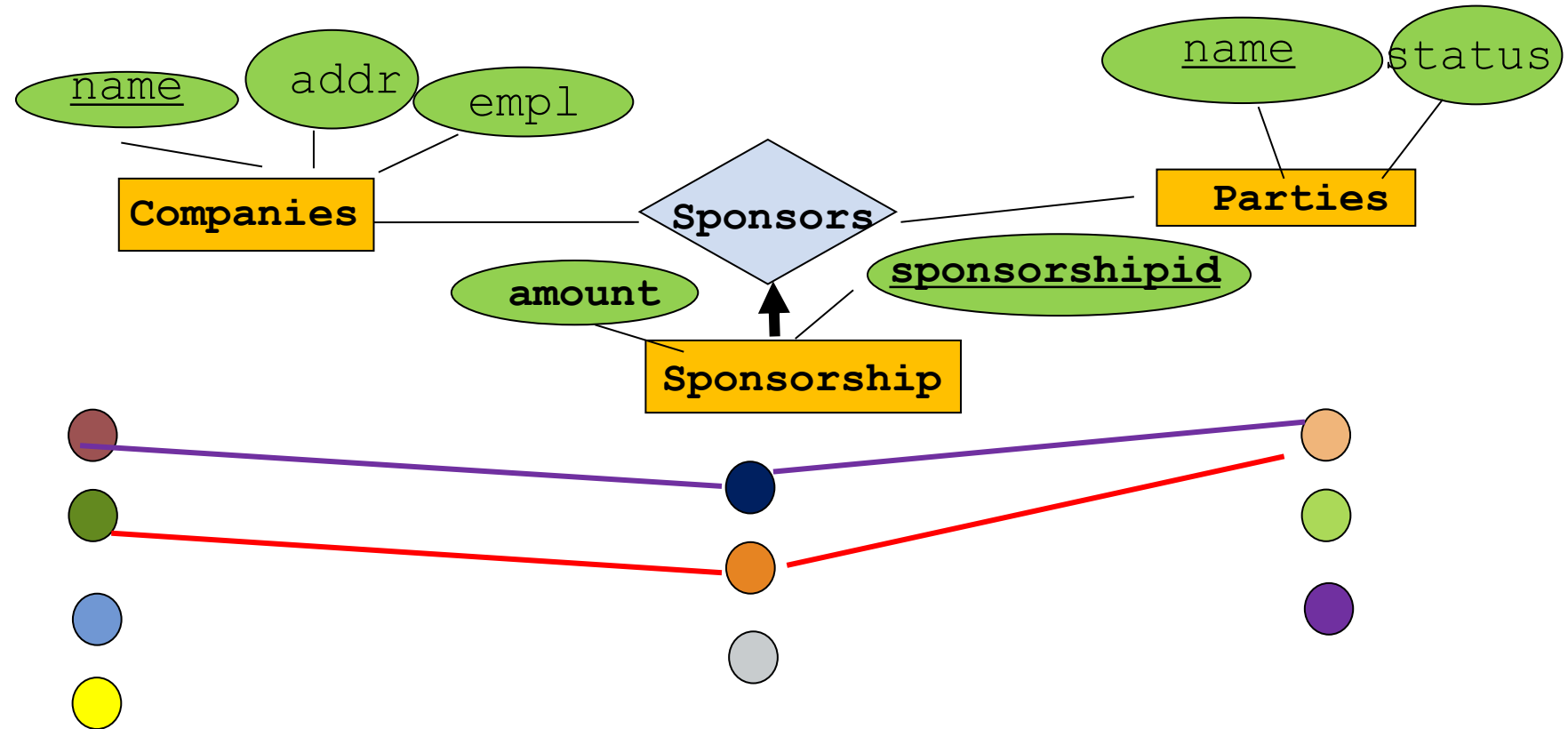
Is involved twice in the relationship, combination is not unique.

Ternary Relationship + key+participation constraint



Correct or incorrect?

Ternary Relationship + key+participation constraint



Incorrect

○ Is involved not in the relationship. (violation of participation constraint)