

length

step2. Mapping 1:N relationship type to the foreign key of relation

((1,1) -

movies

primary key : <u>title + release year</u>

release year

MOVIES

<u>title</u>

1:N relationship type:produced_by \rightarrow foreign key between PRODUCTION_COMPANY & MOVIES

produced_by

plot outline

prod_company

Referential Integrity Constraint

production

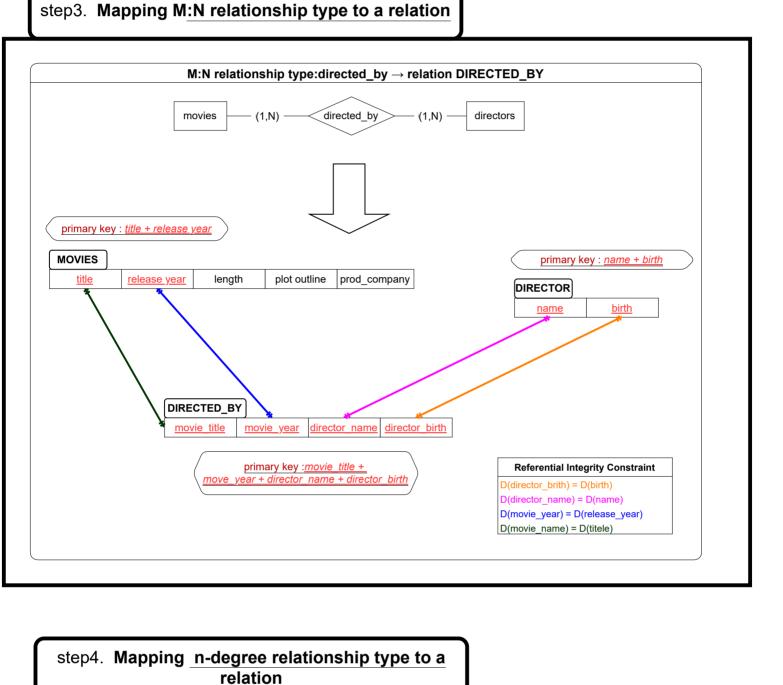
company

primary key : <u>name</u>

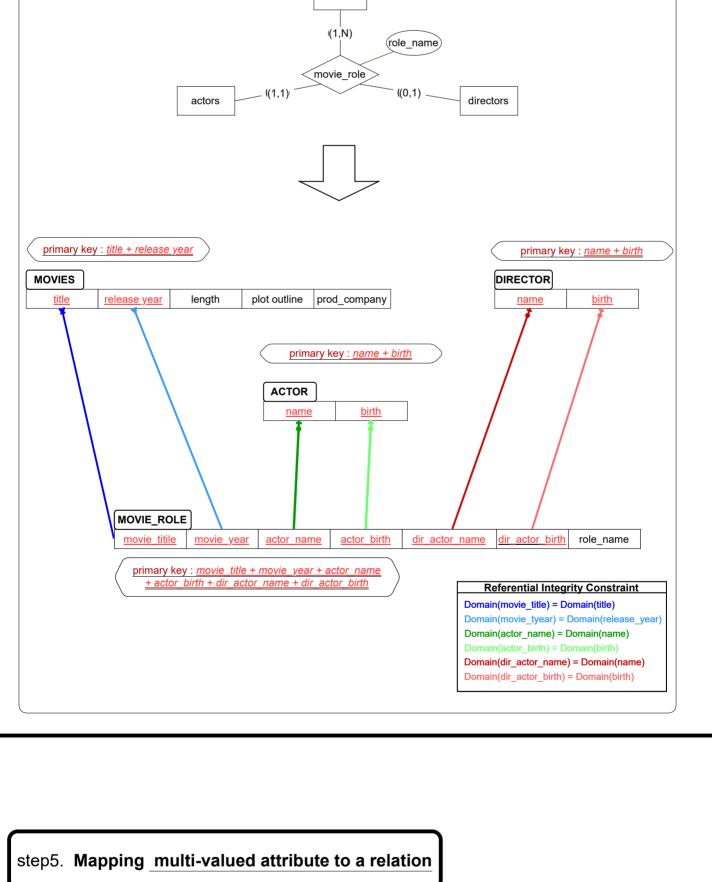
address

PRODUCTION_COMPANY

<u>name</u>



n-degree relationship type:movie_role \rightarrow relation MOVIE_ROLE movies



MOVIES

release year

Generes movie title length

movie_year

primary key: movie titile + movie year +

plot outline

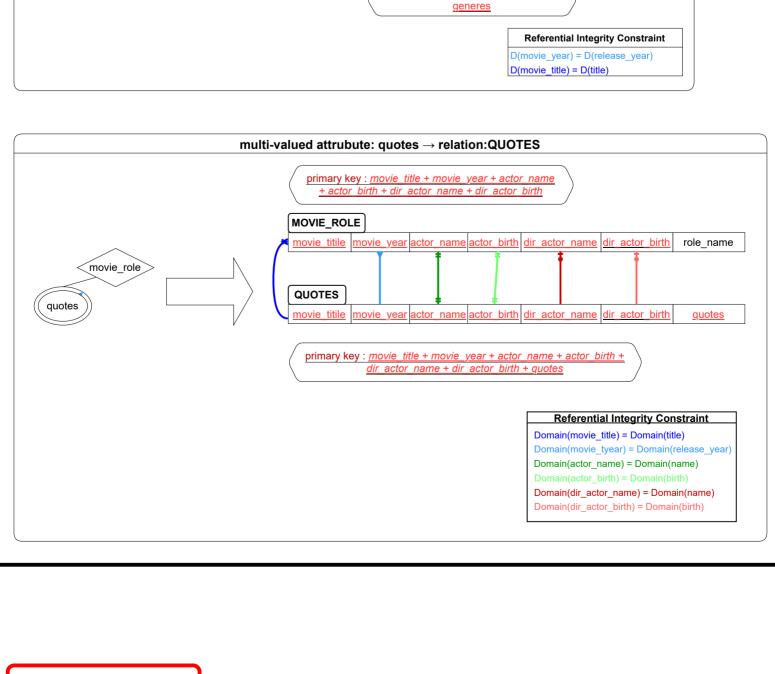
<u>generes</u>

prod_company

 $\textbf{multi-valued attrubute: generes} \rightarrow \textbf{relation:GENERES}$ primary key : title + release year

generes

movies



Relational data Model Generes movie title movie_year <u>generes</u> PRODUCTION_COMPANY address <u>name</u> MOVIES plot outline release year length prod_company DIRECTED_BY movie_title movie year director name director birth DIRECTOR **ACTOR** name birth name <u>birth</u> MOVIE_ROLE movie titile movie year actor name actor birth dir actor name dir actor birth QUOTES movie titile movie year actor name actor birth dir actor name dir actor birth