N 1 M M 1 N N N N M ER DIAGRAM OF MOVIE DATABASE

PERFORMED BY

DIRECTED BY

PRODUCED BY

ALSO AN

Actor

Quotes

HAS

Production Company

Director

Movie

EXPLANATION:

ENTITY: Movie is an entity it has year ,length, plot outline as attributes and genre as multi-valued attribute and title as key attribute.

Director is an entity with Name as the key attribute and date of birth as the attribute.

Actor is an entity with Name as key attribute and date of birth, role as attributes.

Production Company is an entity with name as key attribute and address as attribute.

Quotes is a weak entity so an attribute is borrowed from actor entity.

RELATIONSHIP:

* MOVIE- DIRECTOR (M:N Relationship) : Each movie should be directed my one or more directors therefore movie is in total participation (or) Each director must direct one or more movies ,so director entity is also in total participation.
* MOVIE-ACTOR (M:N Relationship) : Each movie is performed by one or more actors (or) Every actor can appear in one or more movies; so both movie ,actor are in total participation.
* MOVIE-QUOTES ( 1:N Relationship) : Each movie has zero or many quotes(or) each quote had to be used in only single movie. And movie is in partial participation , but quotes is in total relationship.
* MOVIE-PRODUCTION COMPANY (N:1 Relationship) : Each movie must be produced by a production company (or) each production company produces one or more movies. Therefore both movie and production company entities are in total participation.
* DIRECTOR-ACTOR (M:N Relationship) : Director can also act in a movie (or) an actor can also direct movies.

Director can act in zero or many movies also an actor may direct zero or many movies so both director and actor are in partial participation with “also an” relationship.