

# ER DIAGRAMS



Entity Name

### Entity

Person, place, object, event or concept about which data is to be maintained

**Example:** Car, Student



Attribute Name

### Attribute

Property or characteristic of an entity

**Example:** Color of car Entity Name of Student Entity



### Relation

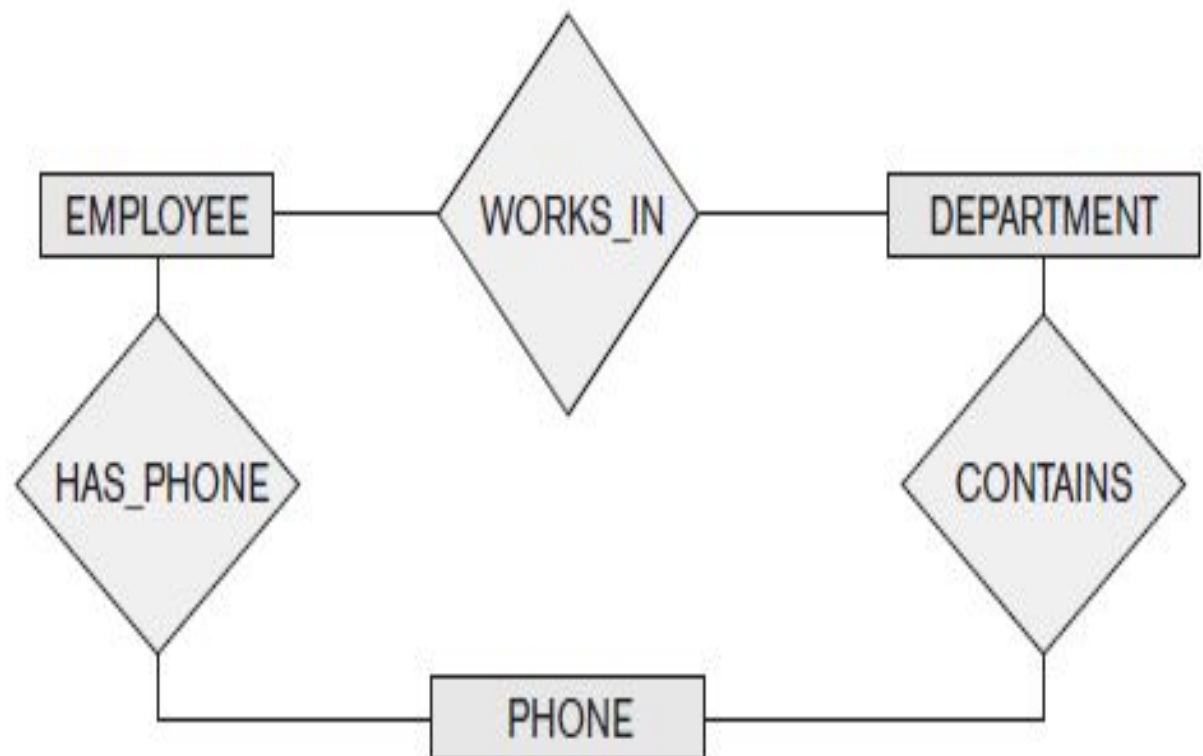
Verb Phrase

Association between the instances of one or more entity types

**Example:** Blue Car Belongs to Student Jack

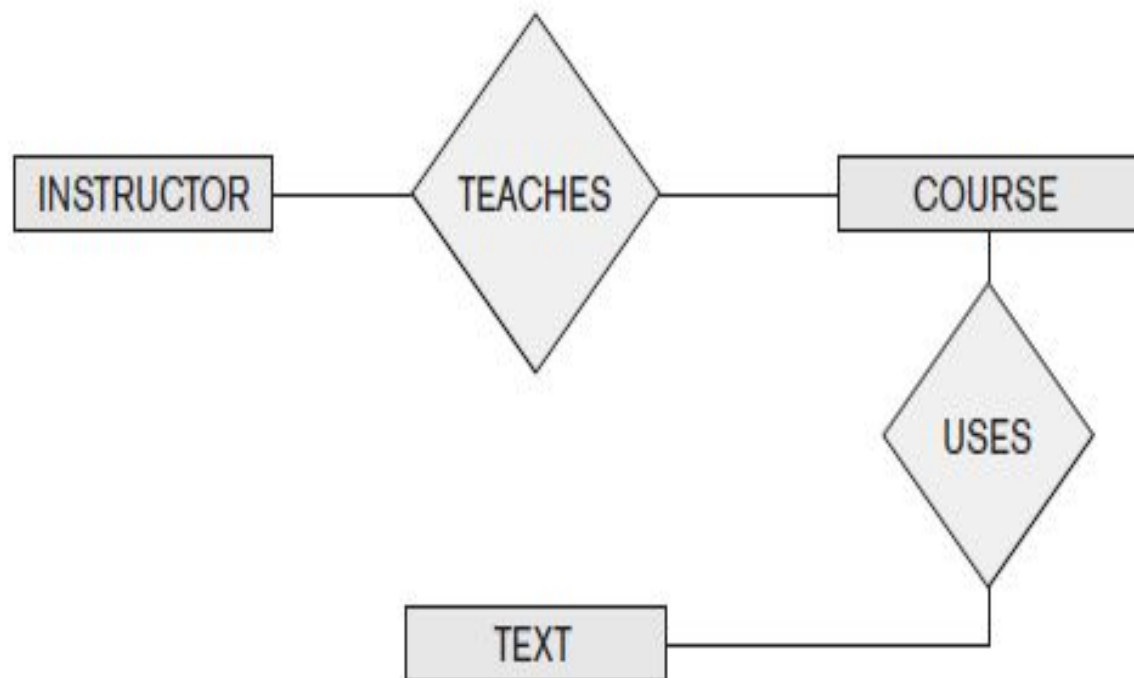
Components of the ER Diagram

**Figure 3.23**  
Part of an ER diagram  
for a COMPANY  
database.

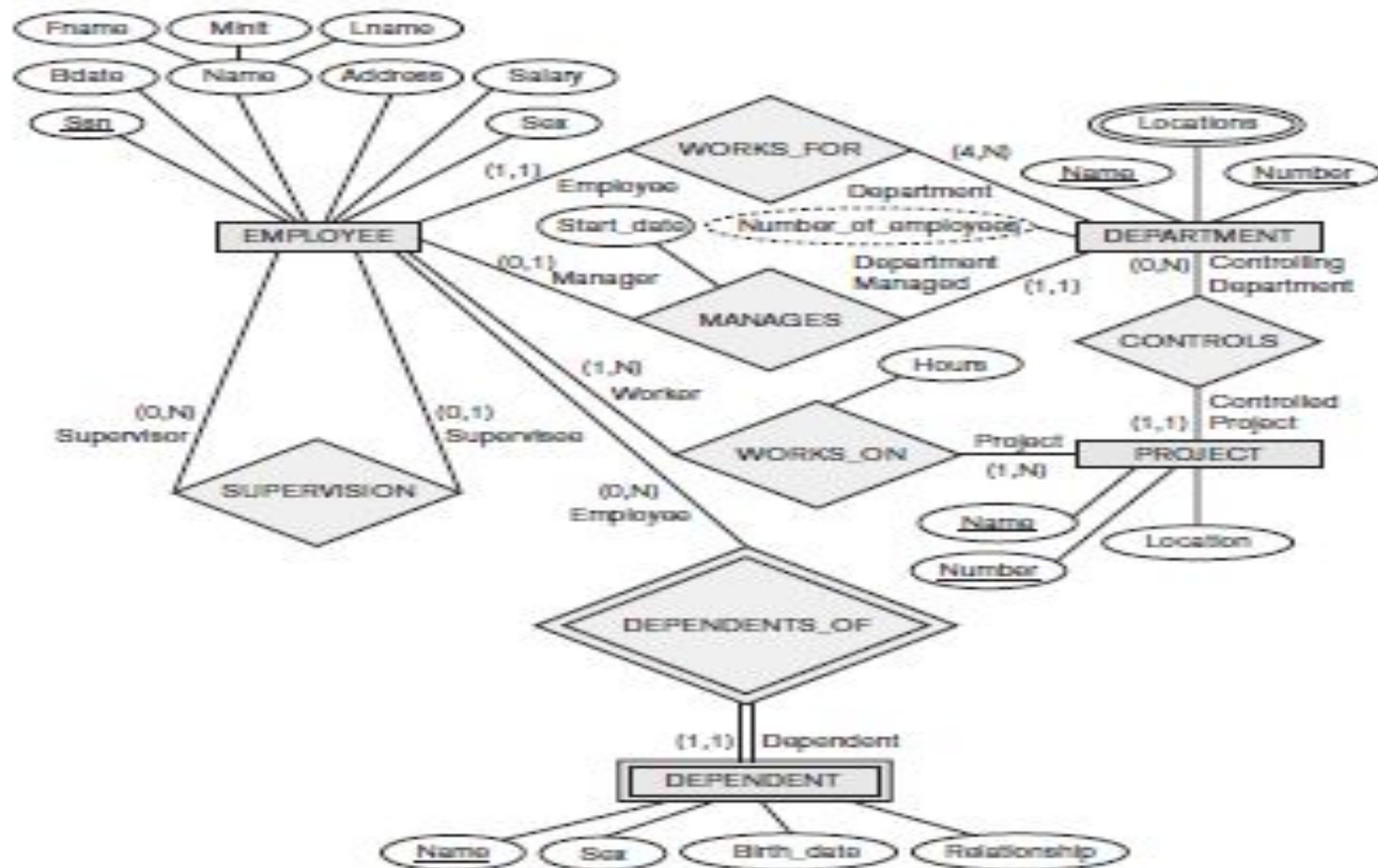


**Figure 3.24**

Part of an ER diagram  
for a COURSES  
database.



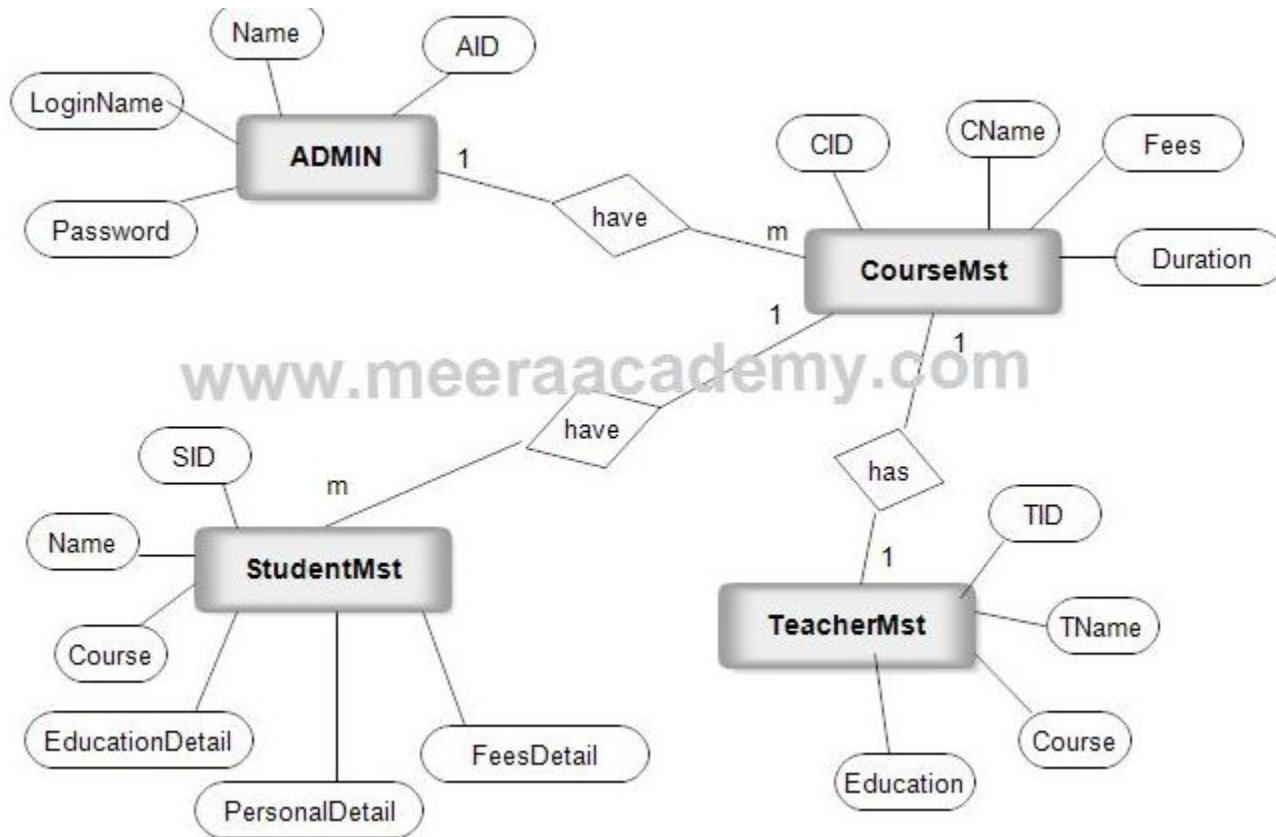
# Company Schema



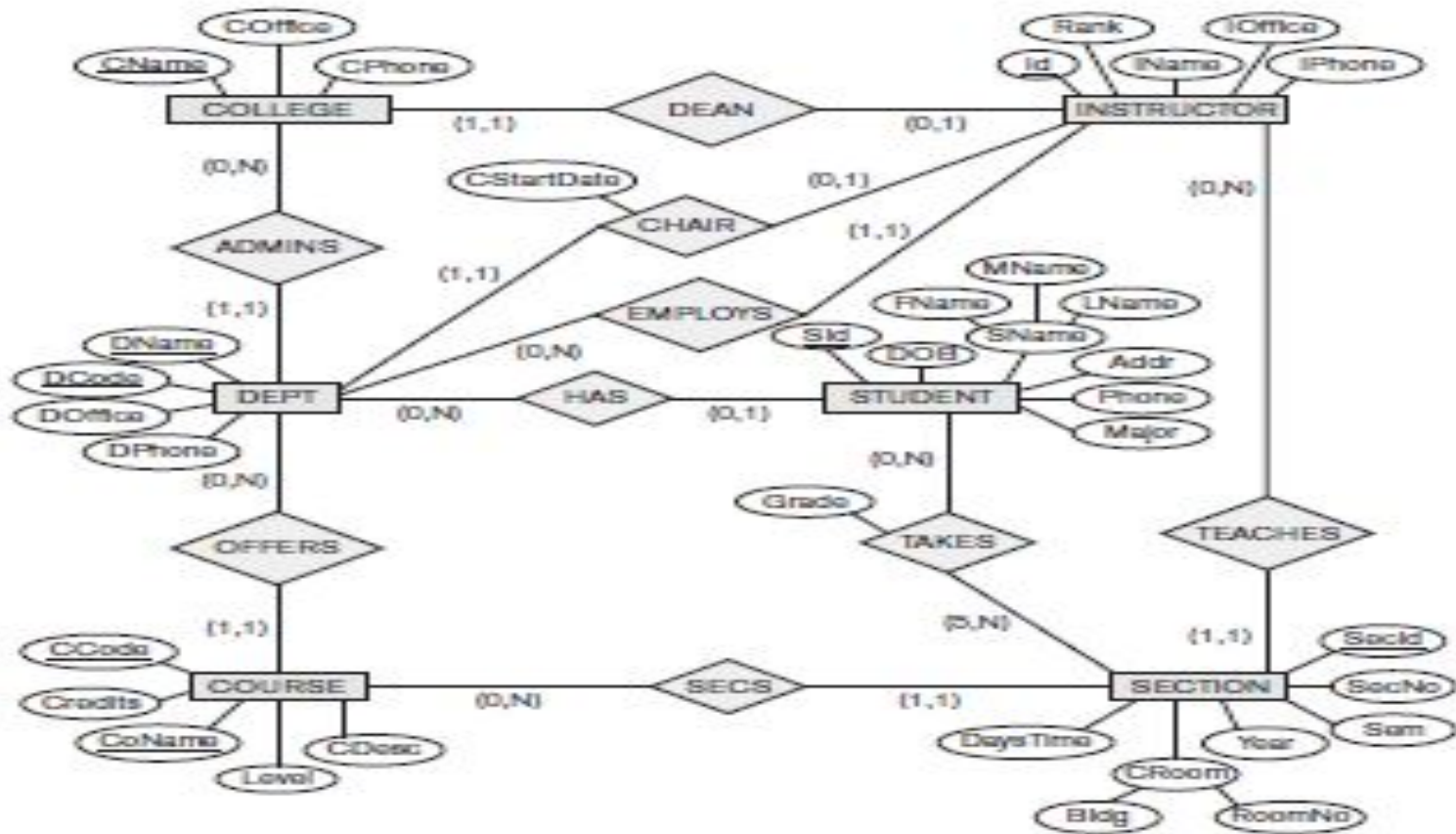
**Figure 3.15**

ER diagrams for the company schema, with structural constraints specified using (min, max) notation and role names.

# Student Management System

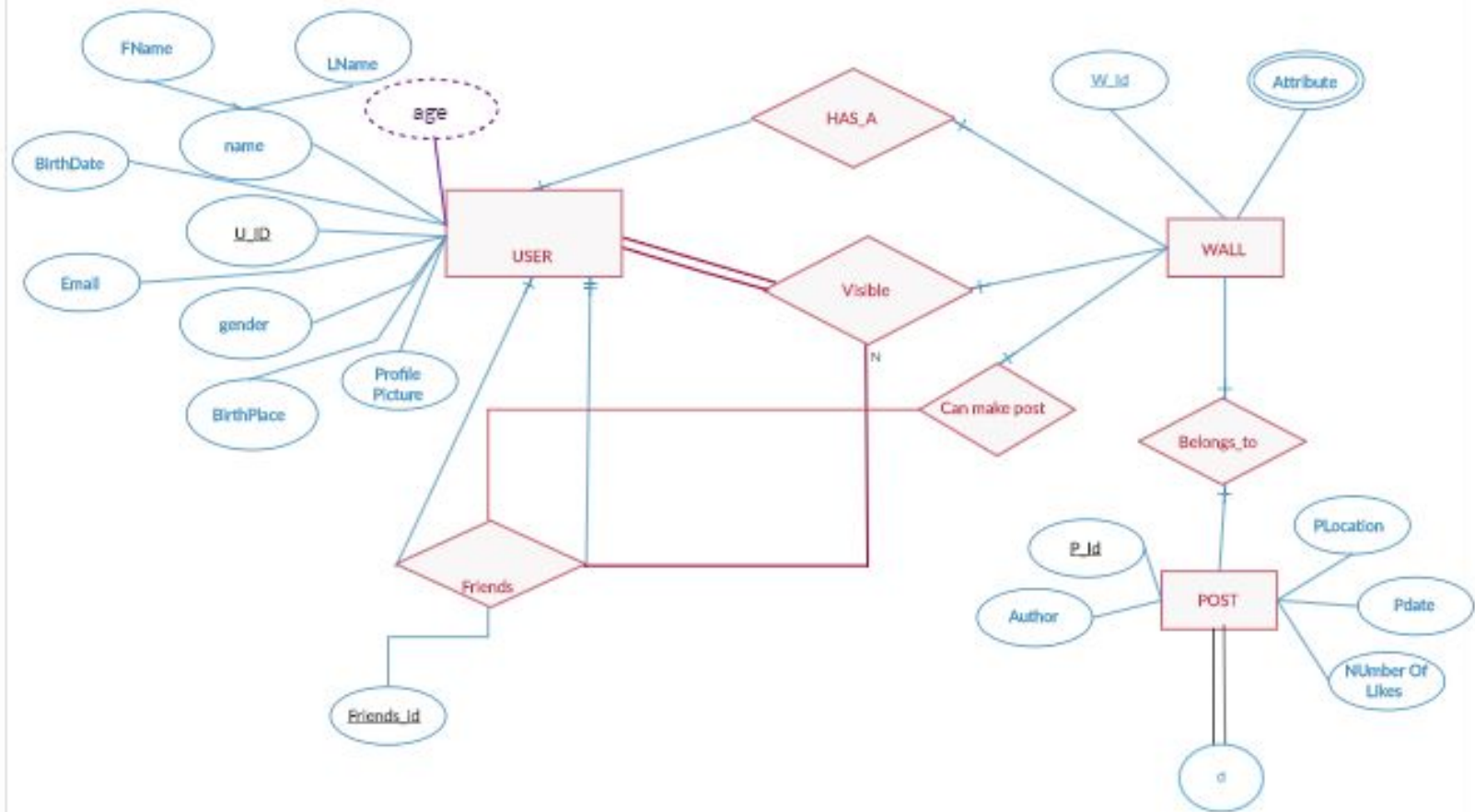


# University database schema



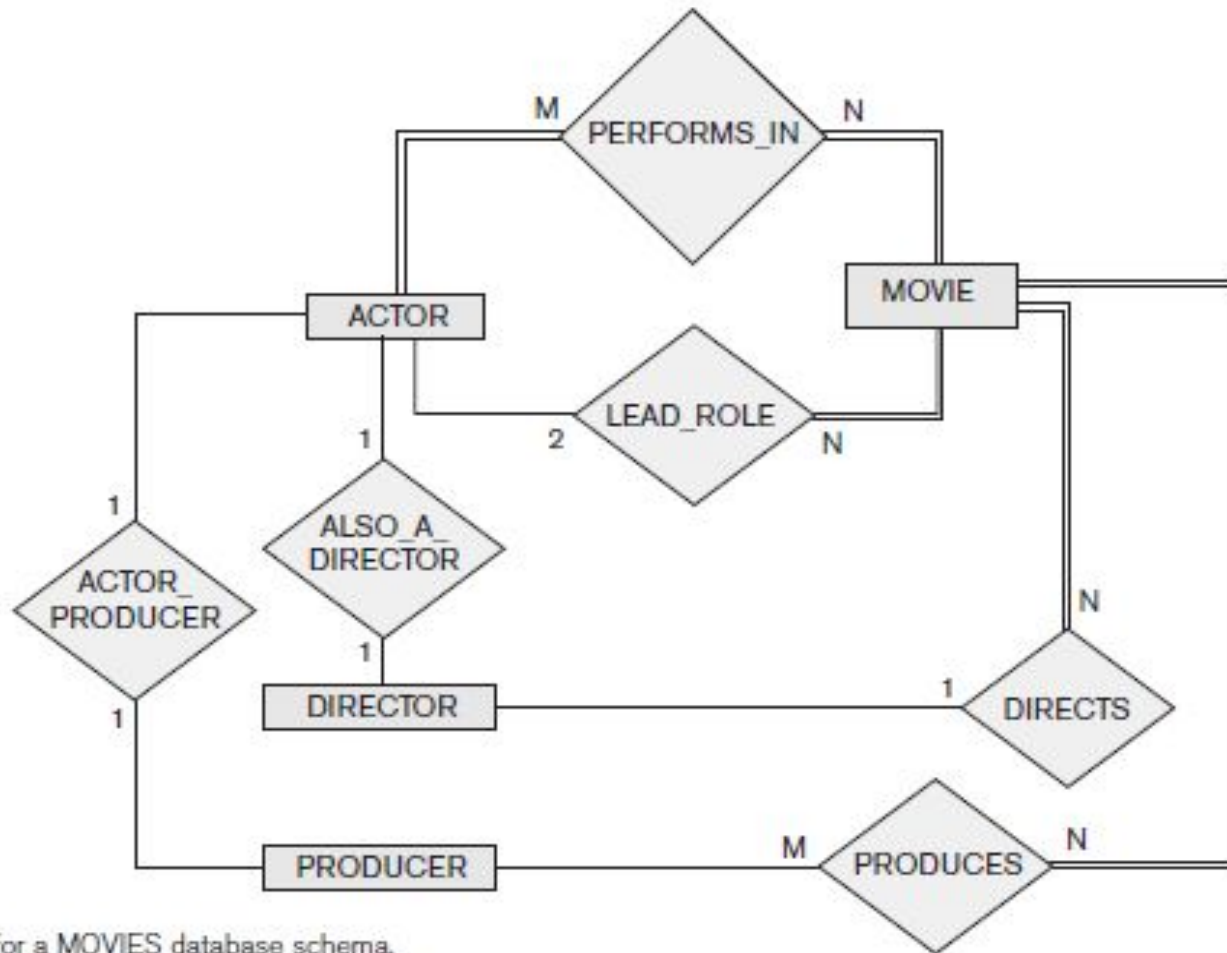
**Figure 3.20**  
An ER diagram for a UNIVERSITY database schema.

# Facebook Database





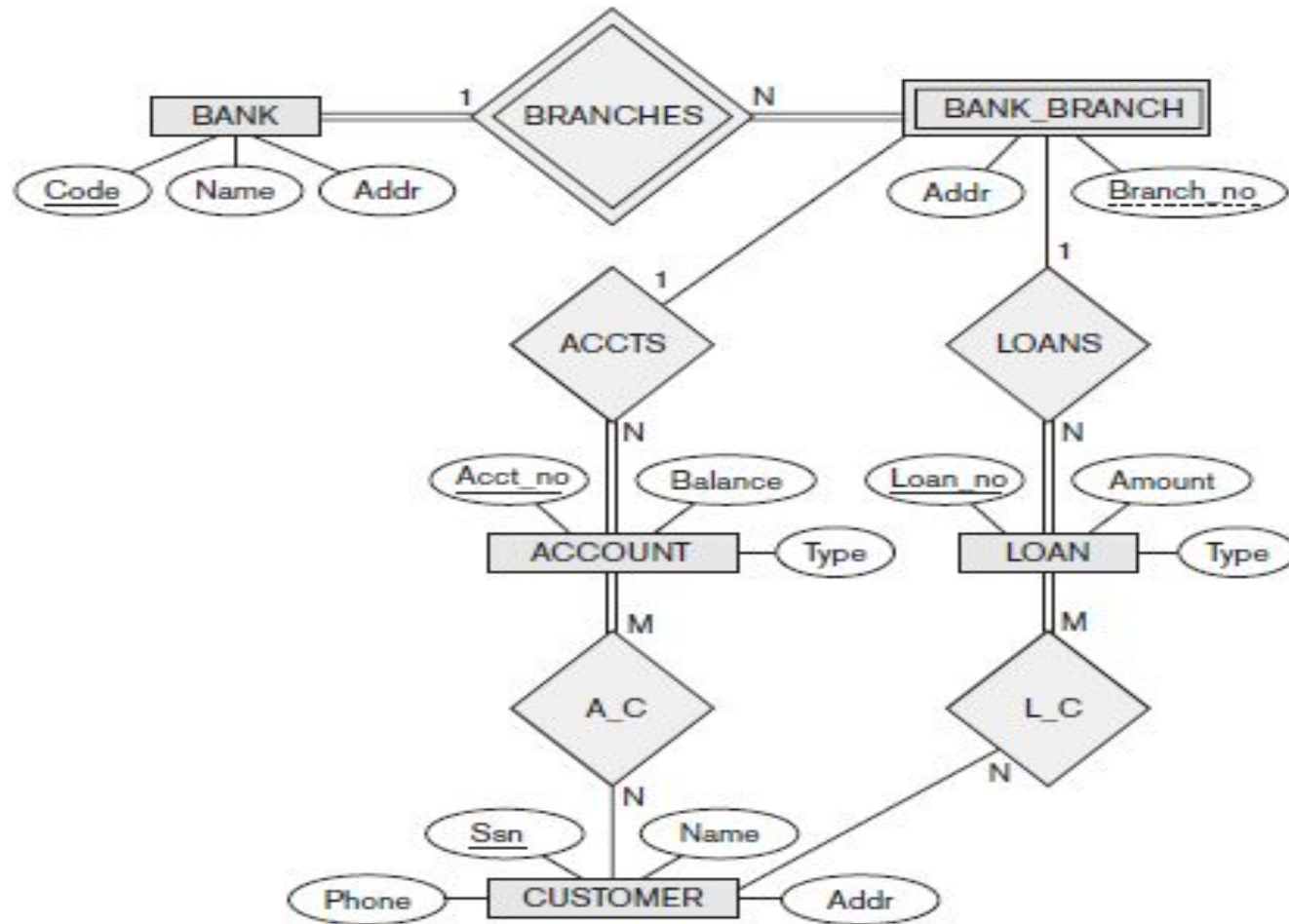
# Movies database schema



**Figure 3.25**

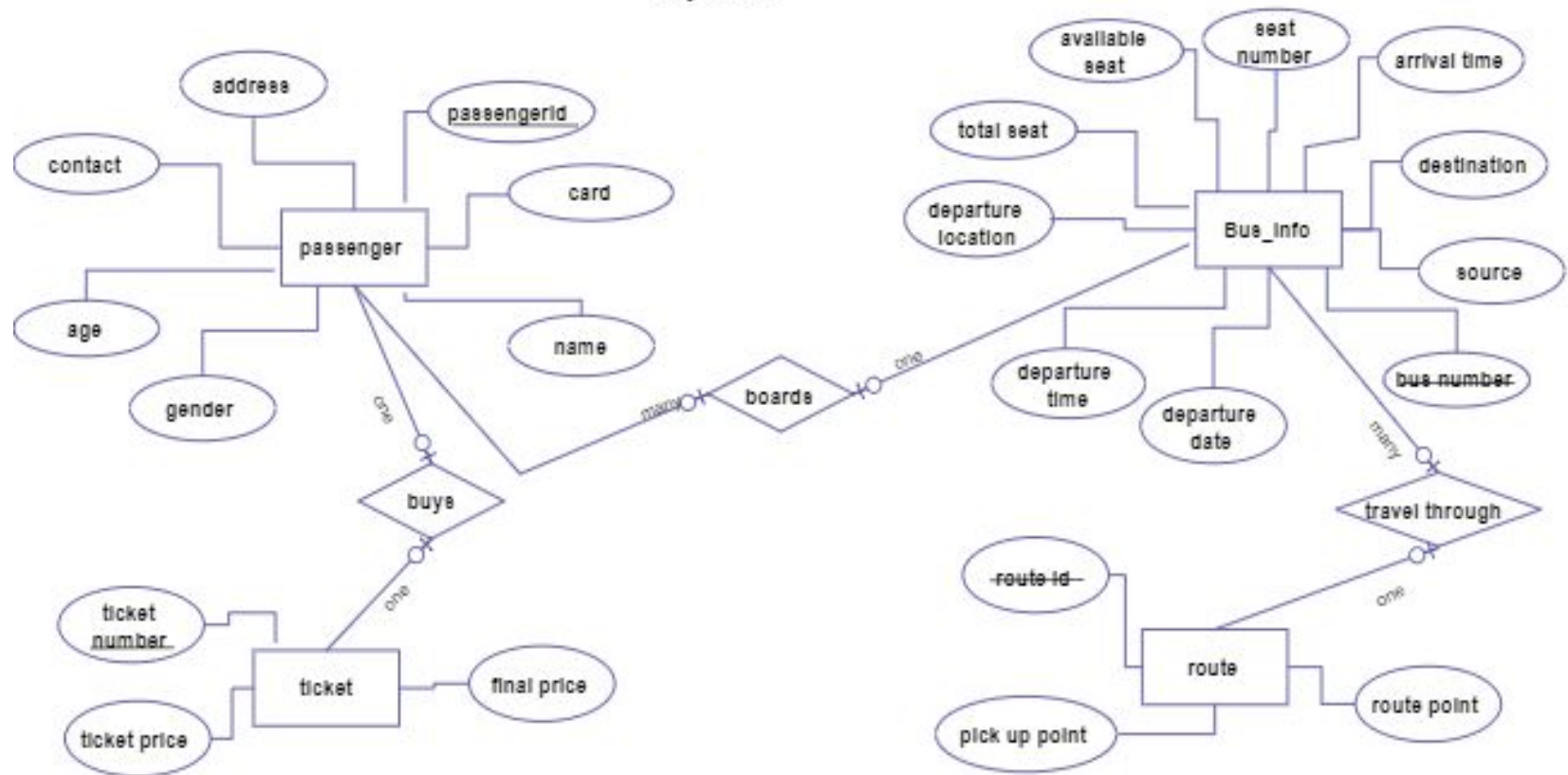
An ER diagram for a MOVIES database schema.

# Bank database schema

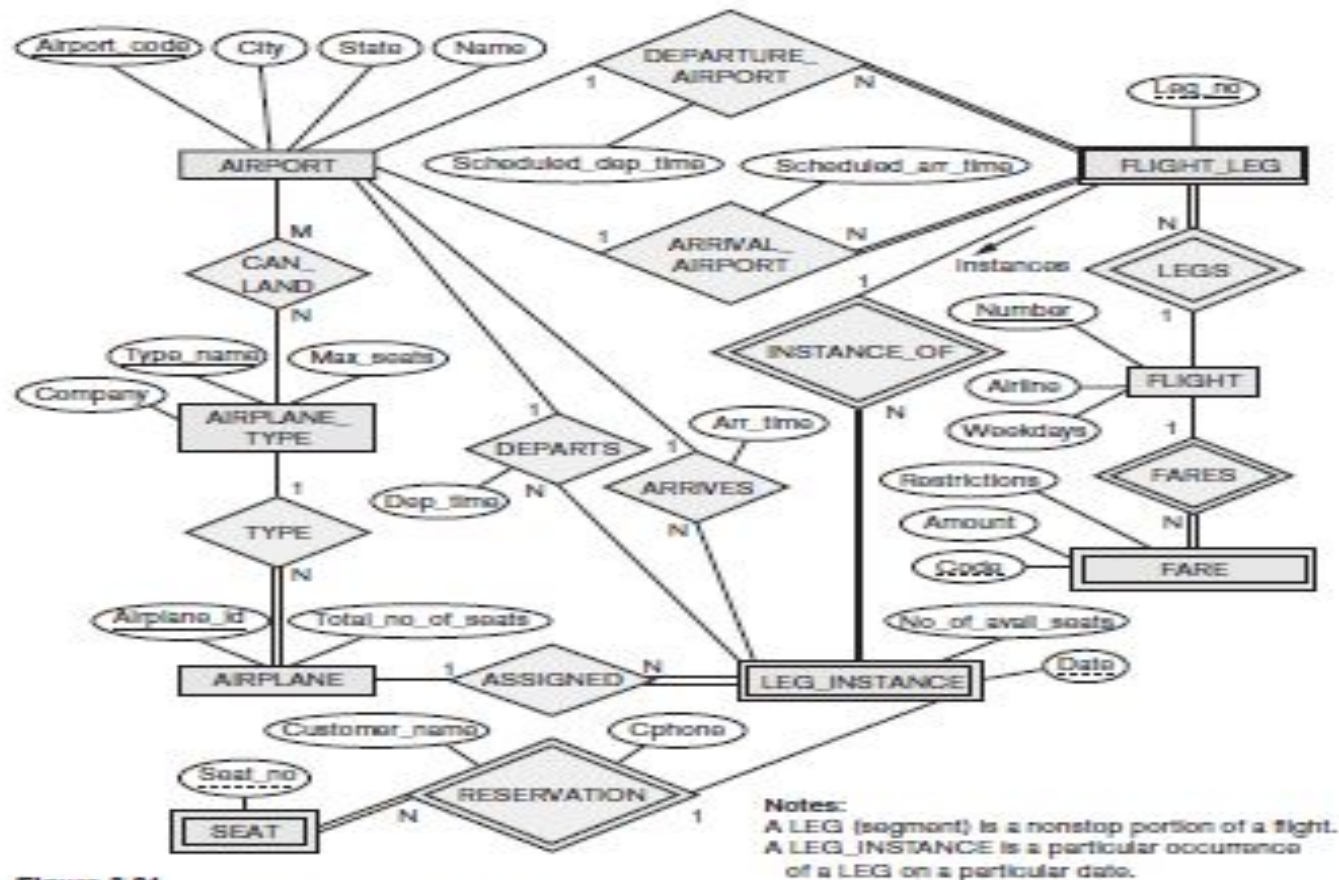


# Bus Ticketing System

ER Diagram of Bus Ticketing System

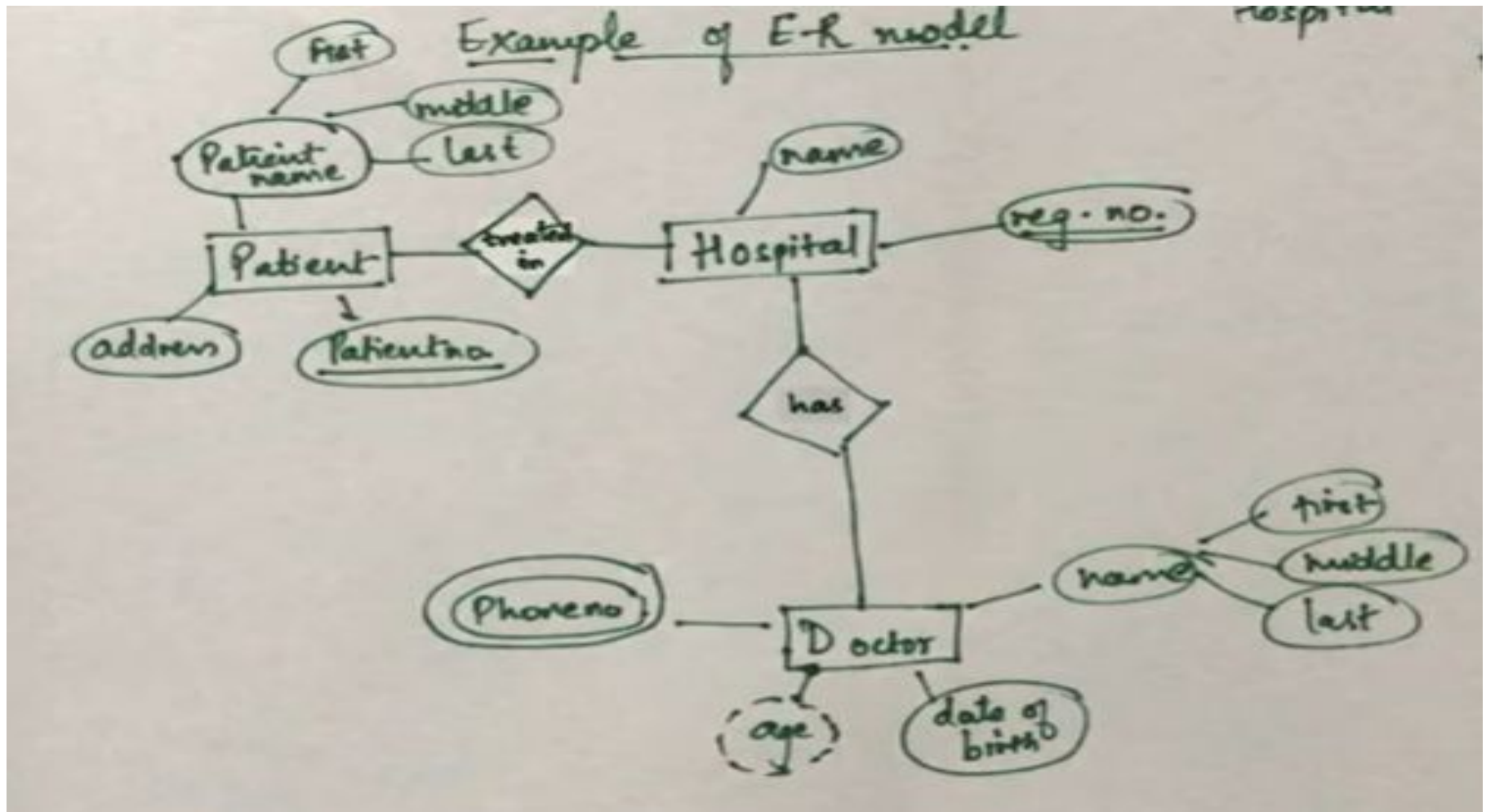


# Airline database schema

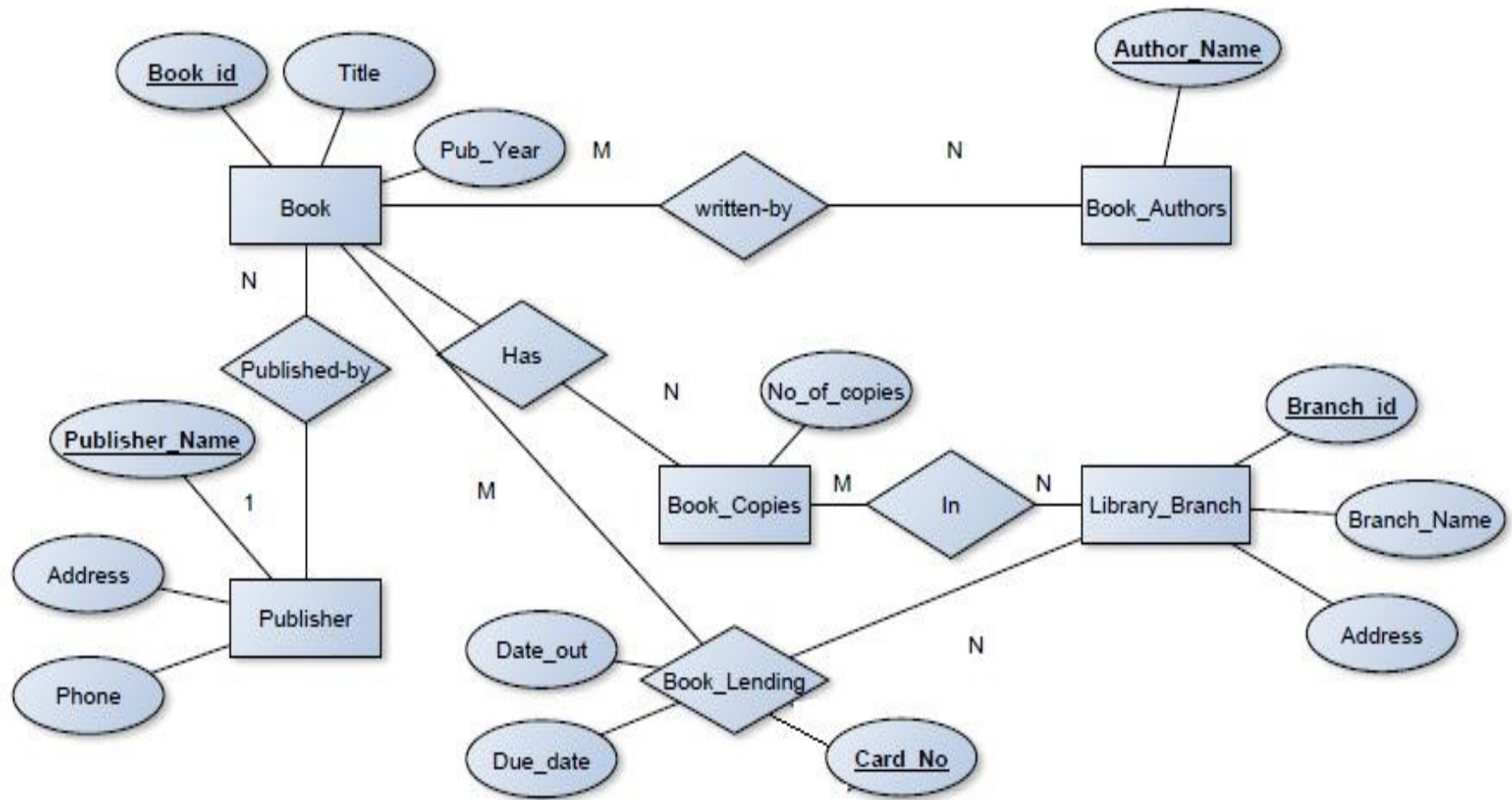


**Figure 3.21**  
An ER diagram for an AIRLINE database schema.

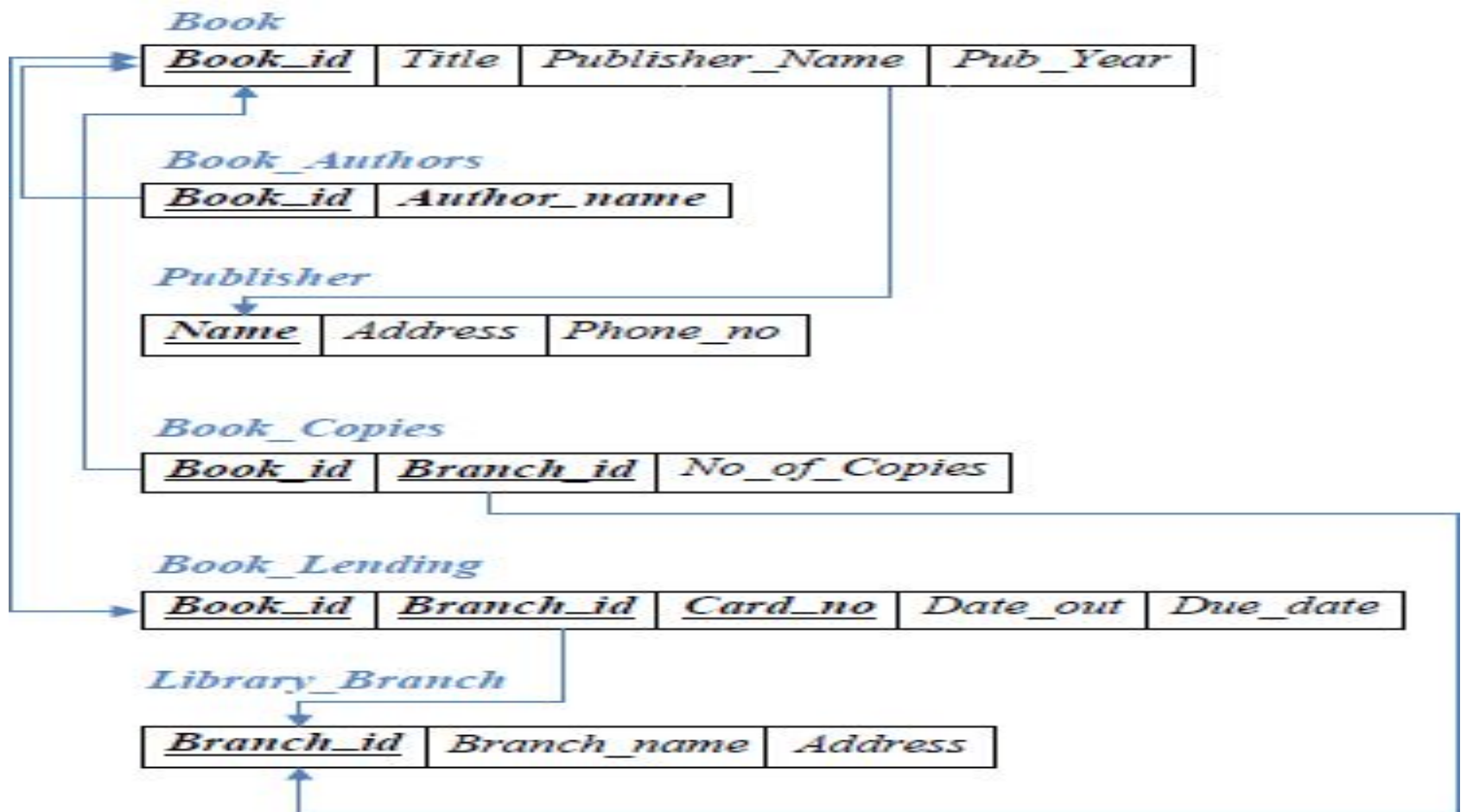
# Hospital Management System



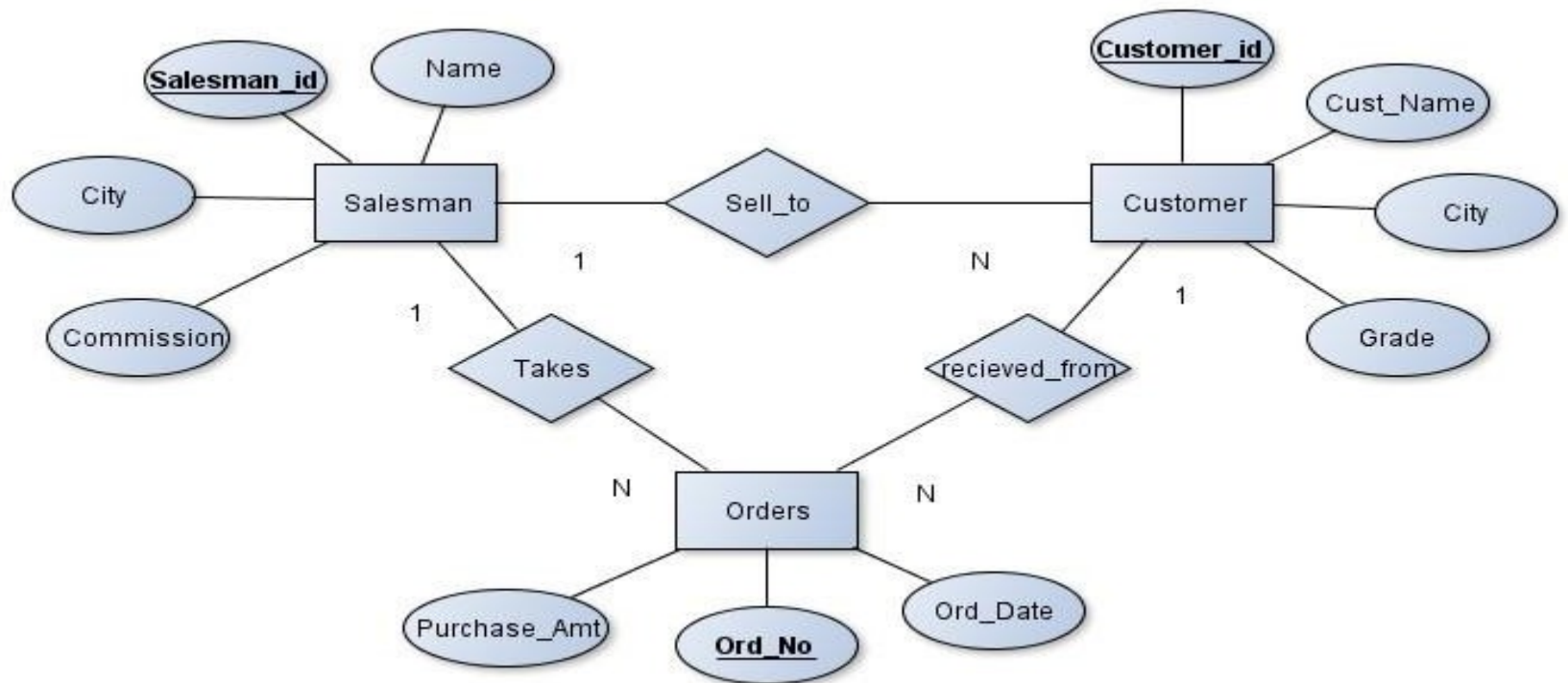
# *Library Database:*







# ORDER DATABASE





## *Salesman*

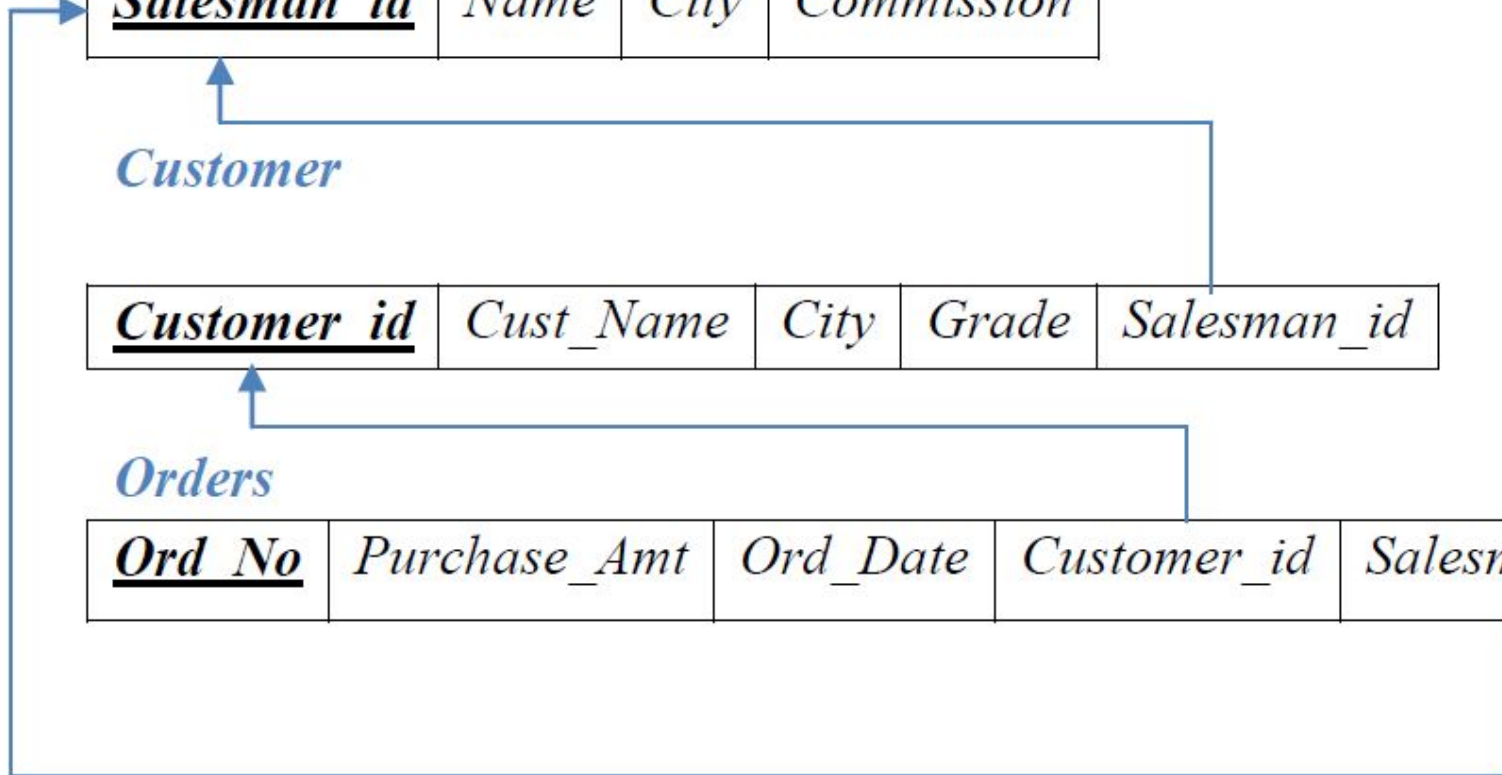
<u>Salesman_id</u>	Name	City	Commission
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## *Customer*

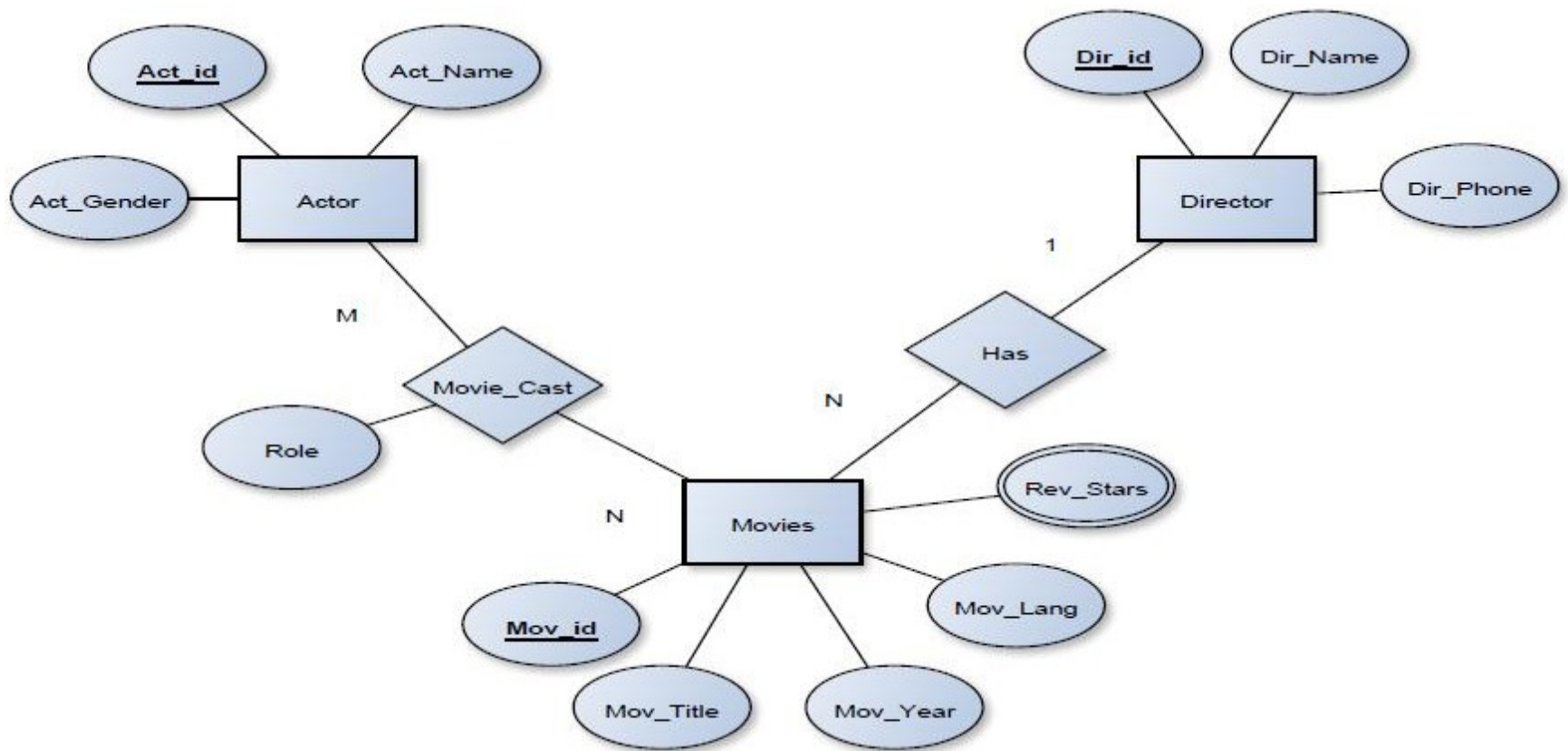
<u>Customer_id</u>	Cust_Name	City	Grade	Salesman_id
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## *Orders*

<u>Ord_No</u>	Purchase_Amt	Ord_Date	Customer_id	Salesman_id
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# MOVIE DATABASE



*Actor*

<u><i>Act_id</i></u>	<i>Act_Name</i>	<i>Act_Gender</i>
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*Director*

<u><i>Dir_id</i></u>	<i>Dir_Name</i>	<i>Dir_Phone</i>
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*Movies*

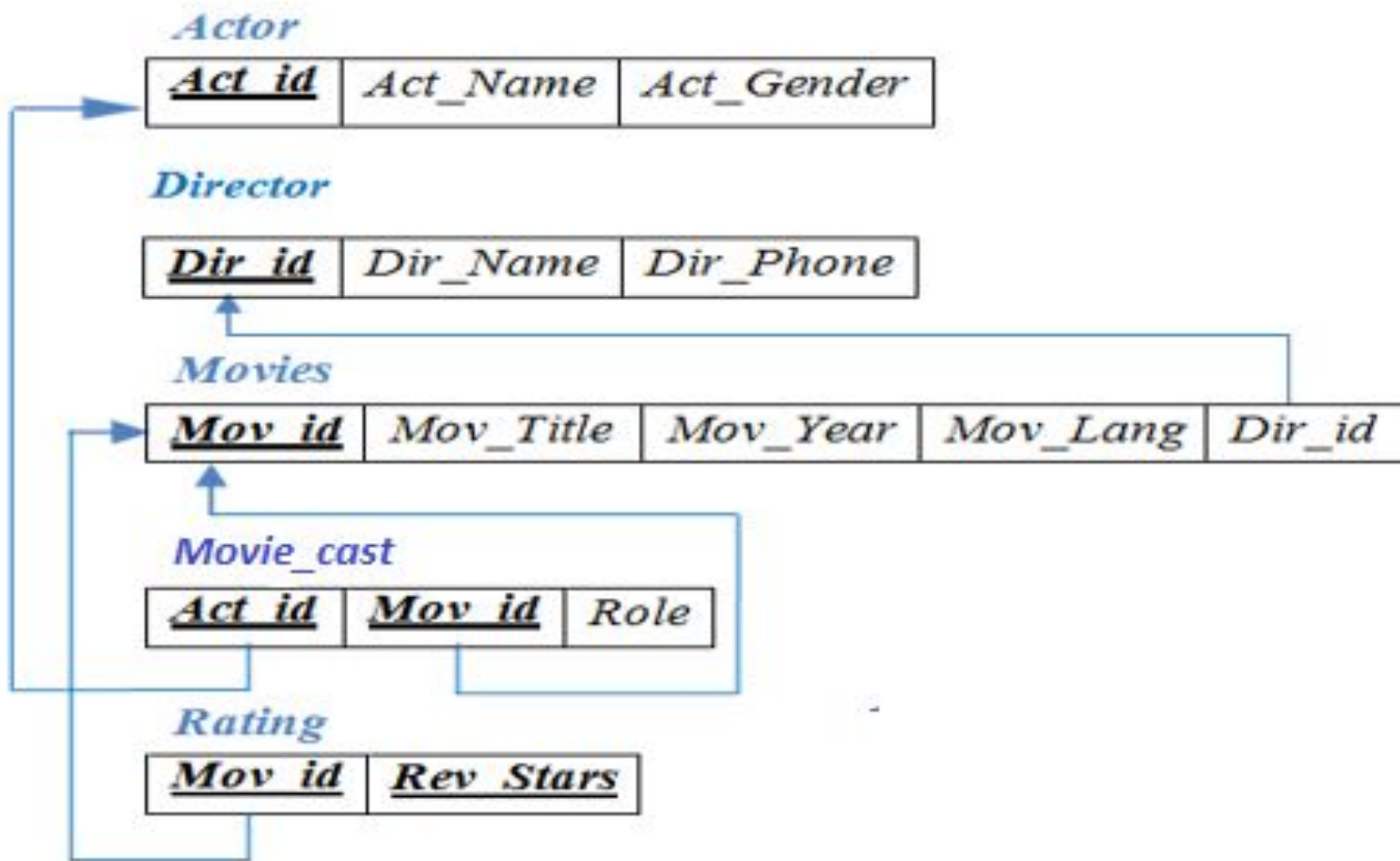
<u><i>Mov_id</i></u>	<i>Mov_Title</i>	<i>Mov_Year</i>	<i>Mov_Lang</i>	<i>Dir_id</i>
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*Movie\_cast*

<u><i>Act_id</i></u>	<u><i>Mov_id</i></u>	<i>Role</i>
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*Rating*

<u><i>Mov_id</i></u>	<u><i>Rev Stars</i></u>
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# NHL

ER\_MODEL OF NATIONAL HOCKEY LEAGUE

DESIGNED BY

NAME:  
USN:

