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Course	: E-DBMS
Date	: 8/09/2021

Topic : Online movie Ticket Booking:-

Mini-world:

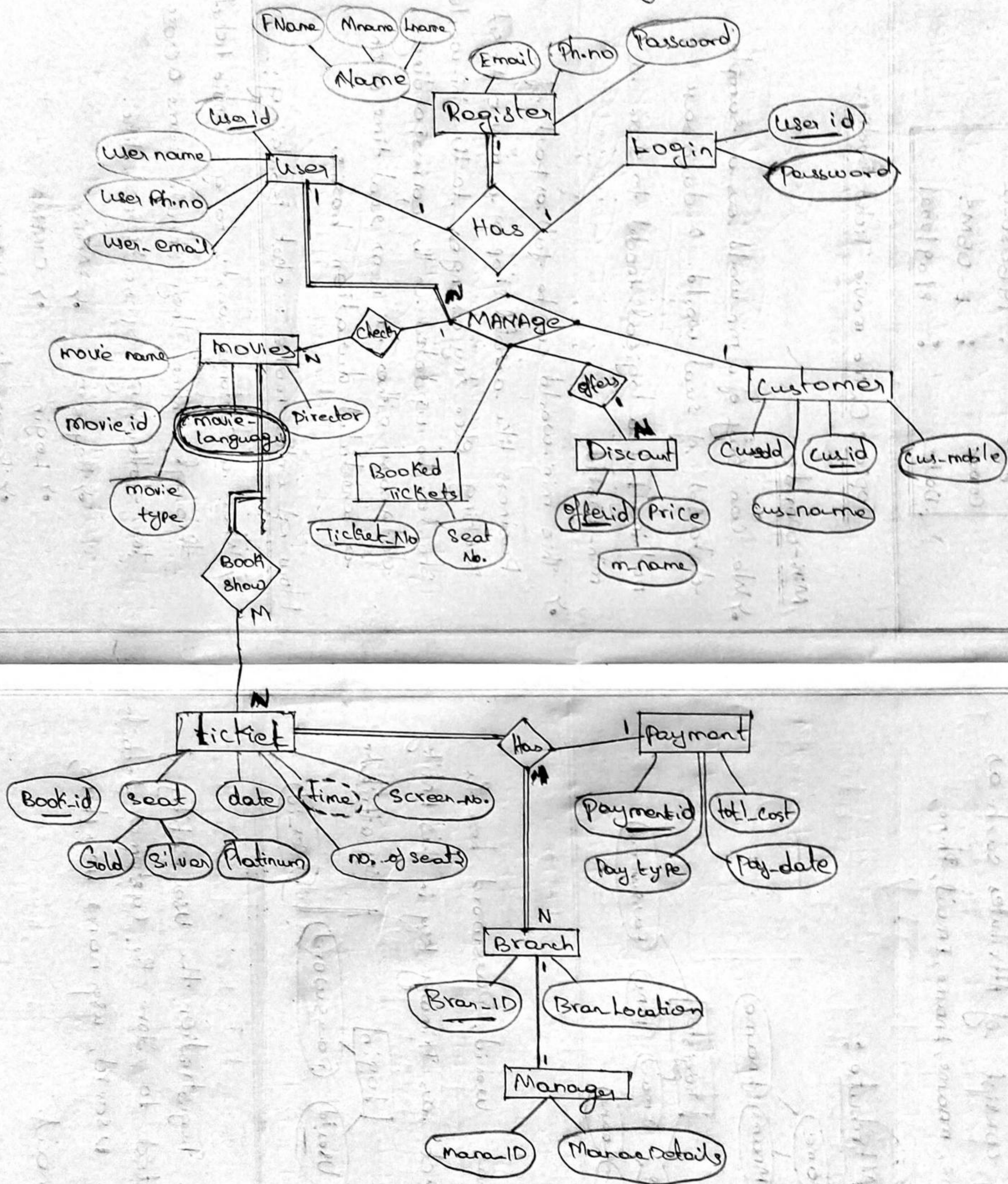
- We can say of a min-world as a sample data set of real world. A database is nothing but a logical model to store a min-world.
- This mini-world can be full or part of a Business like a retail shop or a movie ticket booking. etc. Any changes to the mini-world should be updated in the corresponding database either in near real time or on a scheduled duration basis.

Flow of Online movie Ticket Booking:-

- When a customer wants to get movie ticket through online they should come across the following operations, like.

- Register
- Login
- Reservation
- MOVIE
- CINEMA
- BRANCH etc.

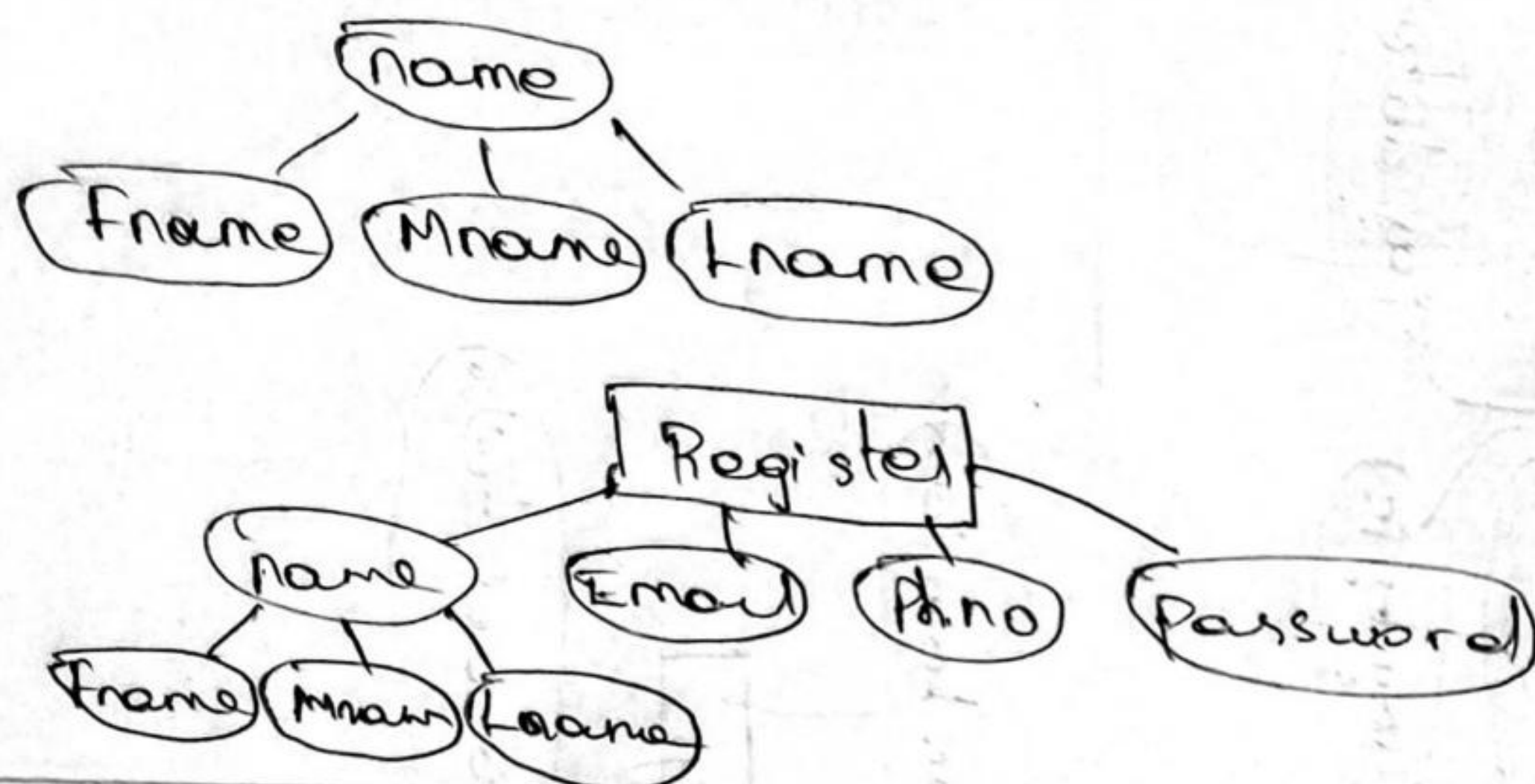
Online - Movie - ticket Booking:-



Register Entity :-

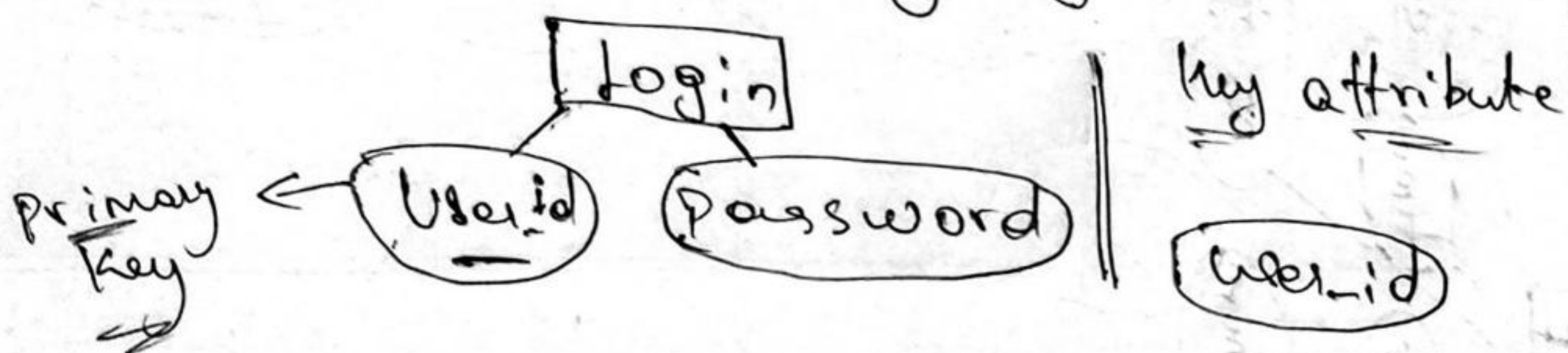
This Entity consist of Attributes such as name, Fname, mname, lname, Email, Ph.no, Password,

Composite Attribute :



2. Login

Entity has userid, Password here the userid act as Primary key in this Entity

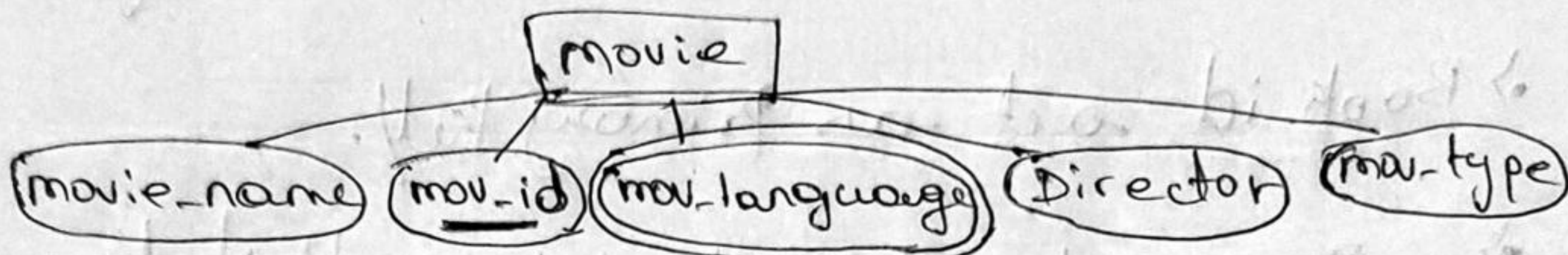


3. User

After the Registration the User entity is generated to store the customer details such as userid, user name, user phno, user-email.

movies:

The attributes are Movie name, id, languages, Director, movie type



multivalued Attribute:

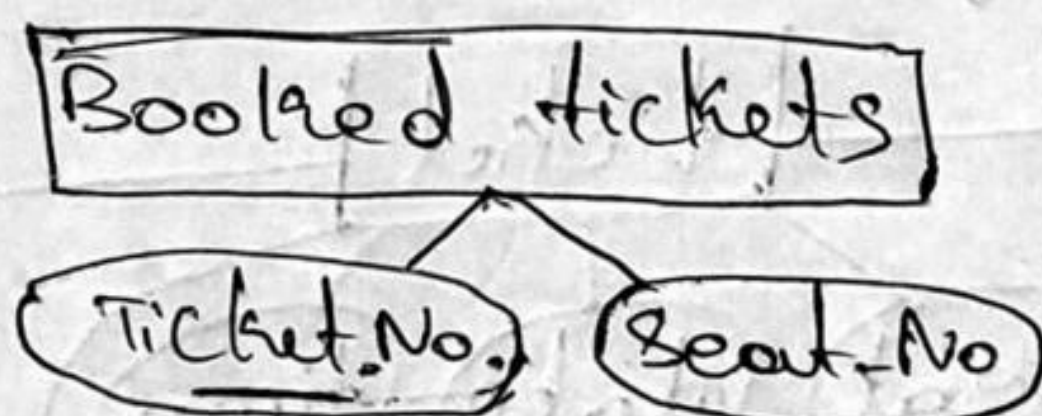
mov_language

because it may release in many languages.

Primary key: mov_id

Booked tickets:-

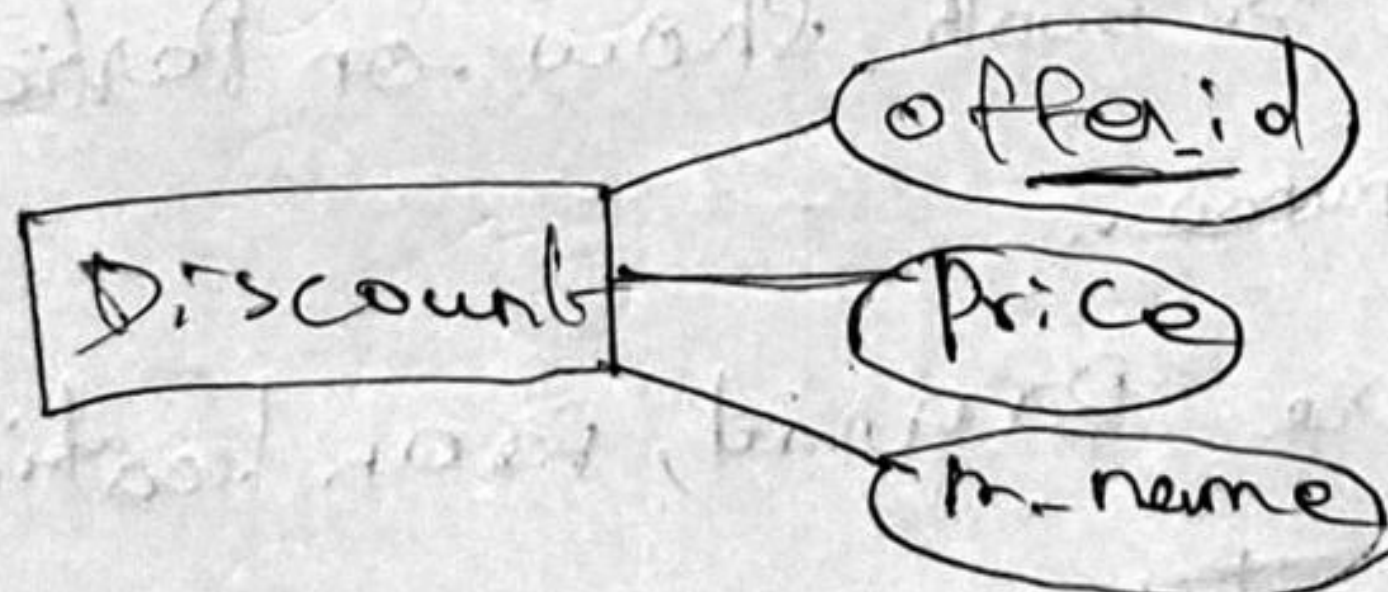
This Entity shows the Booked Shows and the attributes are Ticket_No, Seat No



Discount:-

Attributes are offer_id, Price, m_name

it is offer_id as the primary key



ticket

Attributes are Book_id, seat, Silver, Gold, Platinum, date, time screen No. no. of seats

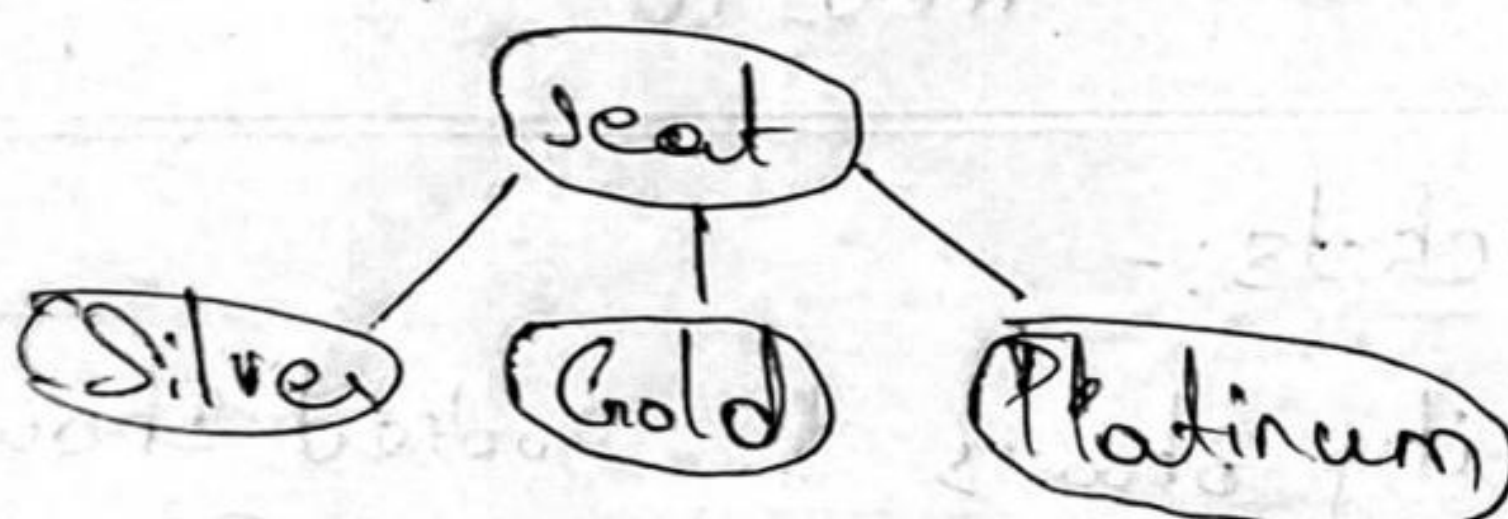
Book_id act as Primary Key.

Derived attribute | Key attribute:

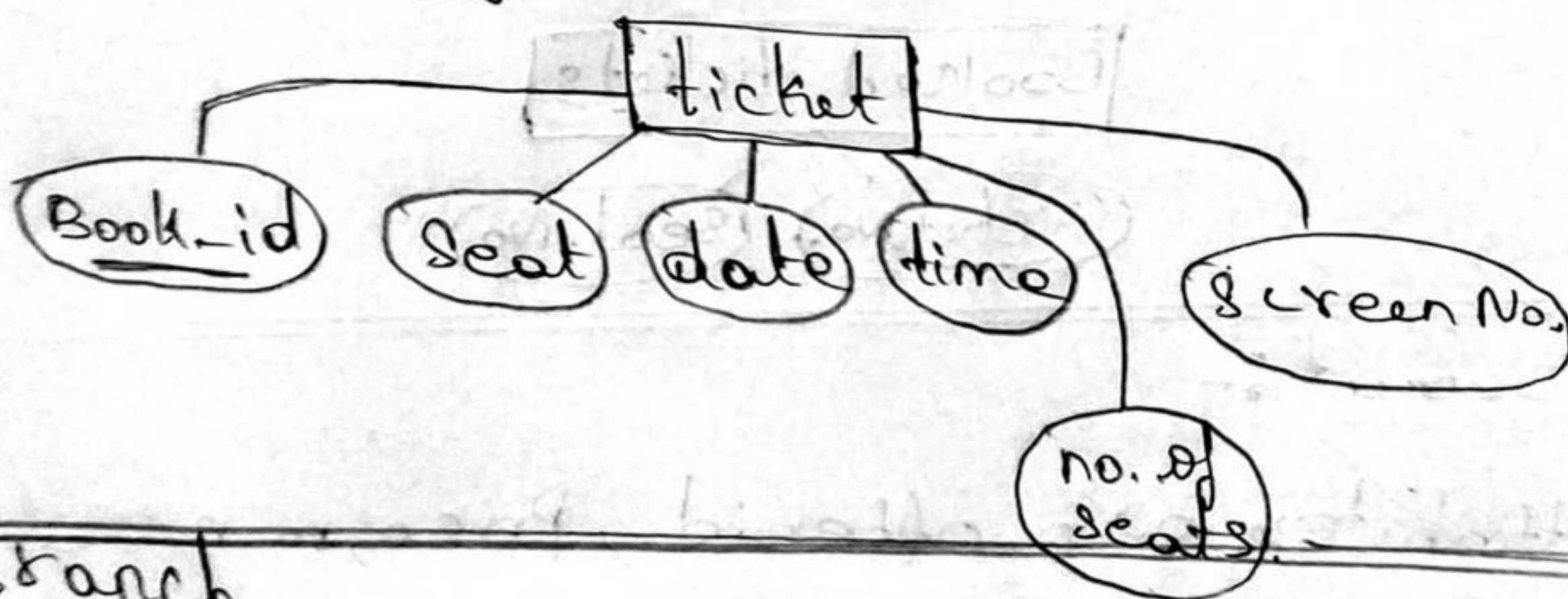
(time)

Book_id

Composite attribute:



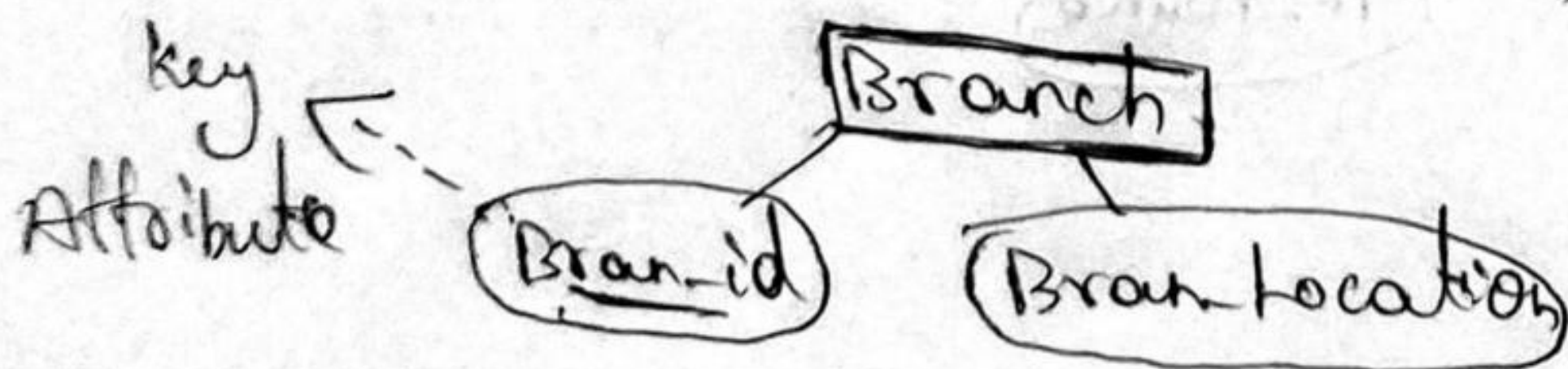
Actual Entity:



Branch

This entity used to Book show on Particular Branch of the Cinema..

The attributes are Branchid, Branch location



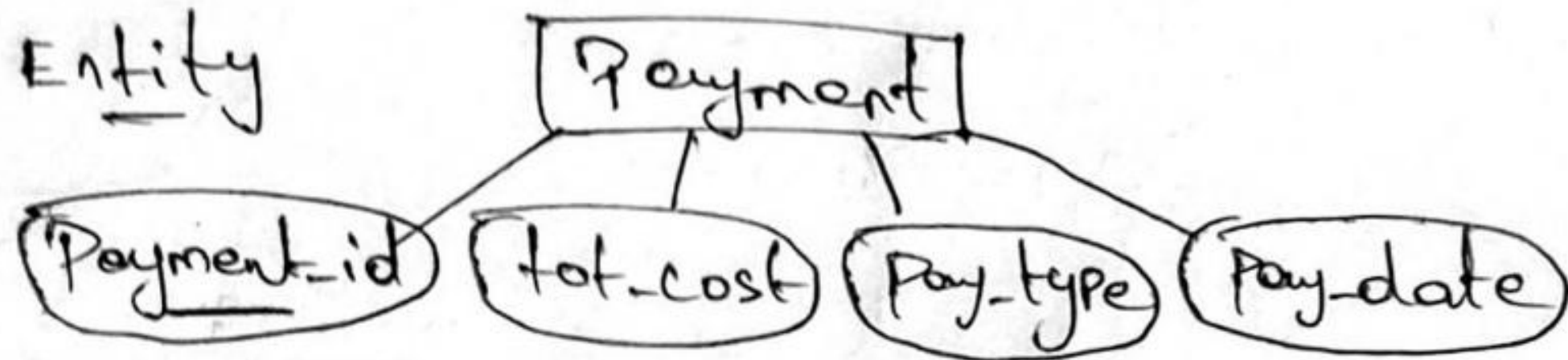
Payment

This is the final Entity of online movie ticket Book it consist of Pay-id, tot-cost, pay-type, Pay-date

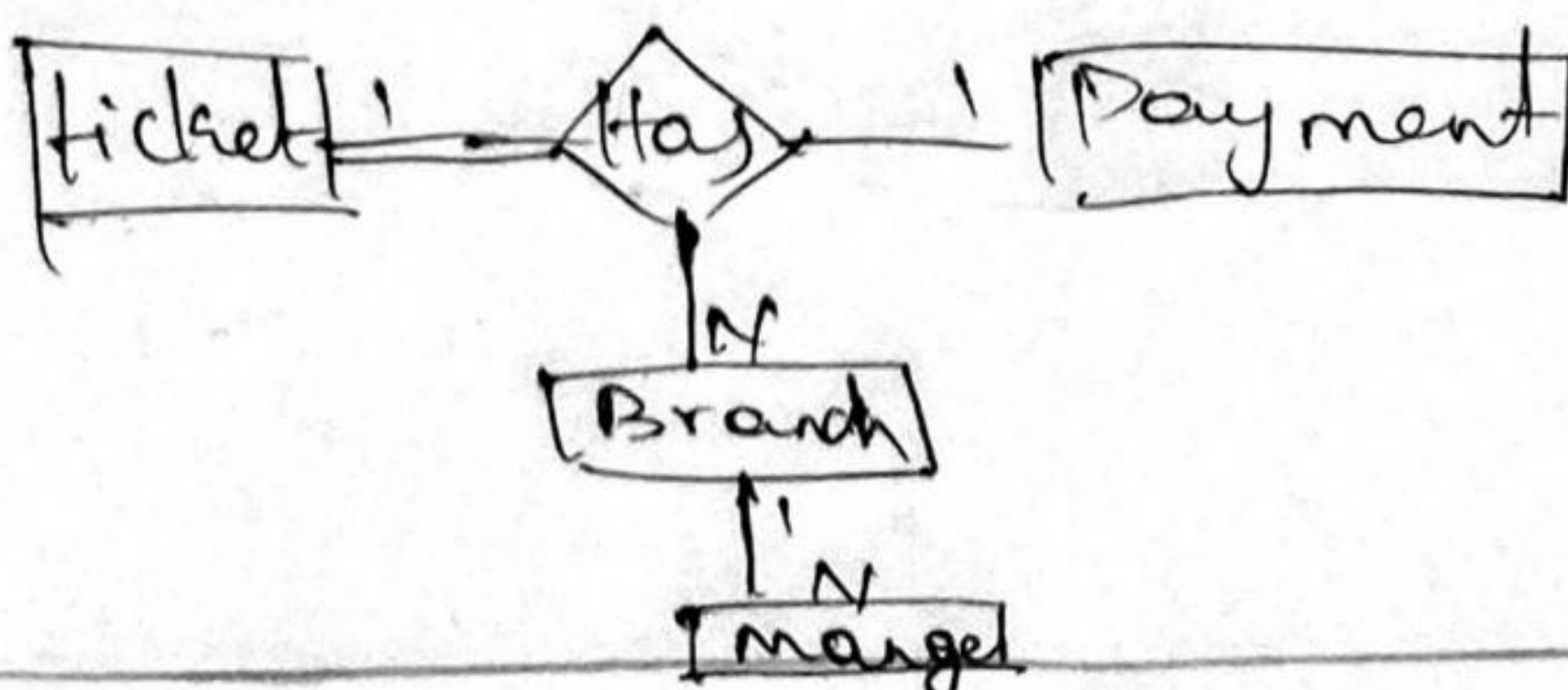
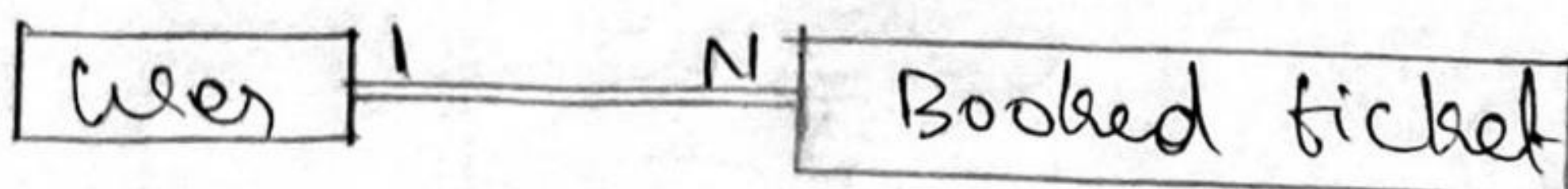
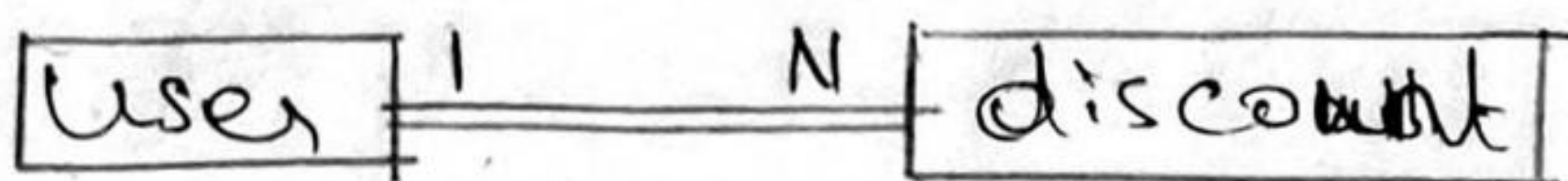
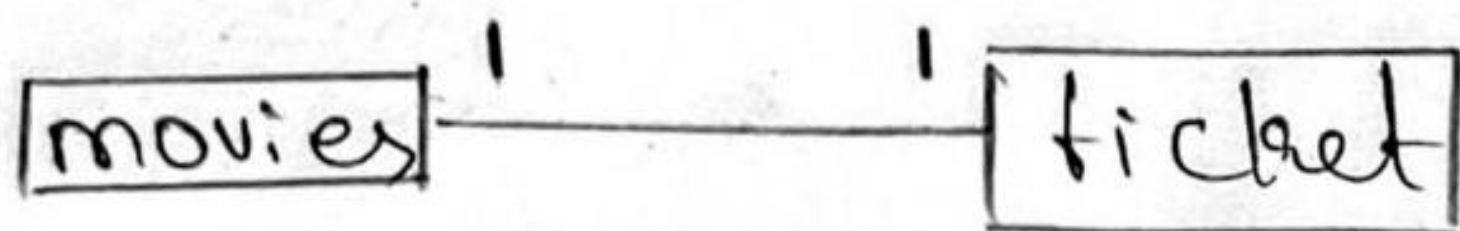
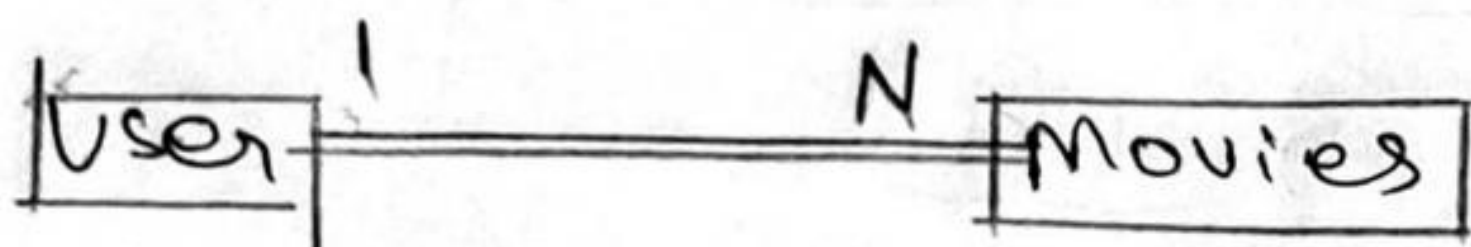
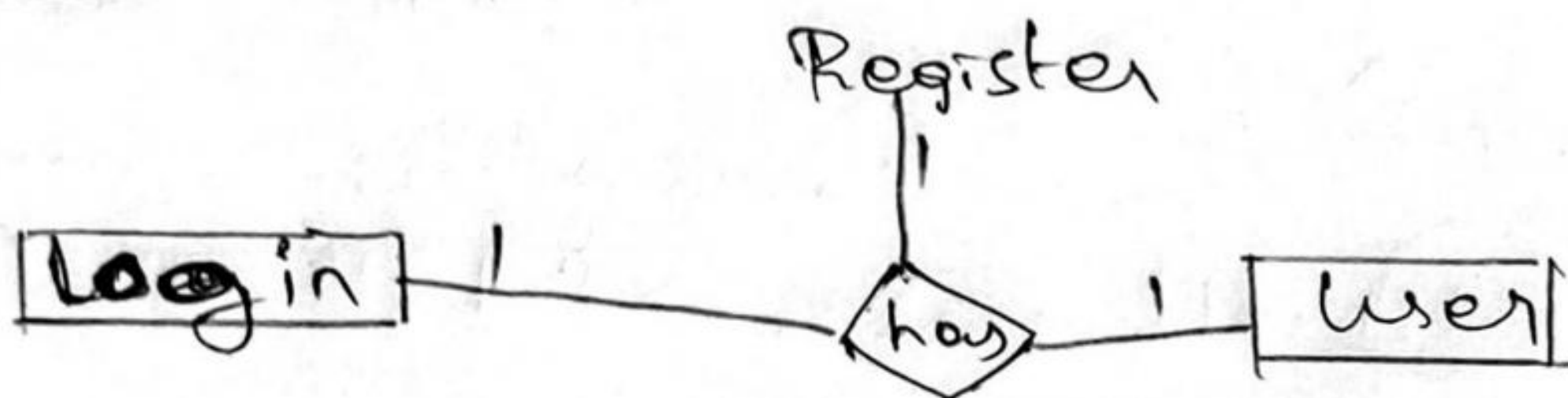
Key Attribute

Payment-id

Actual Entity



Entity relation's



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Digital Assignment-2

Convert ER Diagram to Relation Schema

Step 1: Mapping of Regular Entity Types -

User
~~Register~~

<u>User id</u>	Username	User Phno	User e-mail
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Login

<u>User id</u>	Password
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Movies

<u>movie id</u>	movie name	Director	movie lang.
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Discount

<u>offer id</u>	Price	movie name
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Booked Tickets

<u>Ticket_No.</u>	Seat no.
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Branch

<u>Branch id</u>	Branch location
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Payments

<u>Payment-id</u>	total-cost	Pay type	Pay-date
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Ticket

<u>Ticket</u> Book -id	no. of Seat	date	time	Screen no.
Gdd	Silver	Platinum seat		

Customer

<u>Cus id</u>	Cus add	Cus name	Cus Ph. no
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Step 2: Mapping of Weak Entity Types:-

Register:

FName	Mname	Lname	Email	Ph.no	Password
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∴ the register entity has no key attribute
the reason behind this is the unique user id is
generated after registration and it will
be mailed to email given by the user.

No more Weak
Entity.

Step 3: Mapping of Binary 1:1 Relation Type

User

<u>User id</u>	user_name	user_ph.no	user_email
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Register

FName	Mname	Lname	Email	Ph.no	Password	<u>User id</u>
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foreign
key:

Login

<u>User id</u>	Password
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foreign
key

Ticket

<u>Ticket id</u>	Gold	Silver	Platinum	date	Screen no.
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Branch
~~Payment~~

<u>Branch id</u>	Branch location	<u>Ticket id</u>
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Payment

<u>Pay id</u>	tot_cost	Pay_type	date	<u>ticket id</u>
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Step 2:

Mapping of Binary 1:N Relationship Types

User

<u>User_id</u>	User name	User Ph.no	User email
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Movies

<u>movie id</u>	movie name	Director	<u>user_id</u>	movie type
			foreign key	

Booked Tickets

<u>Book_id</u>	Seat-no	<u>user_id</u>
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Discount

<u>Offer_id</u>	Price	movie name	<u>user_id</u>
-----------------	-------	------------	----------------

Payment

<u>Payment_id</u>	totl-cost	pay-type	Pay date
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Branch

<u>Branch-id</u>	Branch-Location	<u>Payment_id</u>
		foreign key

Step 5: Mapping of Binary M:N Relationship.

Types:

Movies

→ <u>movies_id</u>	movies_name	movie type	movie language
Director			

Ticket

→ <u>Ticket_id</u>	gold silver	platinum	date time
Screenno	no. of seats		

Book-show

<u>movie_id</u>	<u>Ticket_id</u>

Foreign
keys,

Step 6: Mapping of Multivalued attributes:-

Movie ~~Language~~

<u>movie_id</u>	movie_name	movie_type	Director
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Movie_Language

<u>movie_id</u>	movie_language
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foreign key

movie_Language is a multi-valued attribute
Because same movie with different
languages like Tamil, Telugu, English...

Step 7: Mapping of N-ary relationship Type.

User

<u>userid</u>	username	user Phno	user_email
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Login

<u>userid</u>	password
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Register

Frame	mname	Lname	E-mail	Phno	password
userid					

user:

<u>userid</u>	user name	user ph.no	email
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Reg:

Fname	Mname	Lname	email ph.no	<u>user-id</u>
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login

<u>userid</u>	<u>Password</u>
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Booked ticket

<u>Book_id</u>	Seat_no	<u>userid</u>
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Discount

<u>Order-id</u>	Price	movie_name	<u>userid</u>
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Ticket

<u>Ticket-id</u>	Gold	Silver	Platinum	date
<u>Screen no</u>				

Branch

<u>Branch id</u>	Branch_location	<u>Ticket-id</u>
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Payment

<u>Pay id</u>	tot cost	Pay type	<u>ticket-id</u>
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