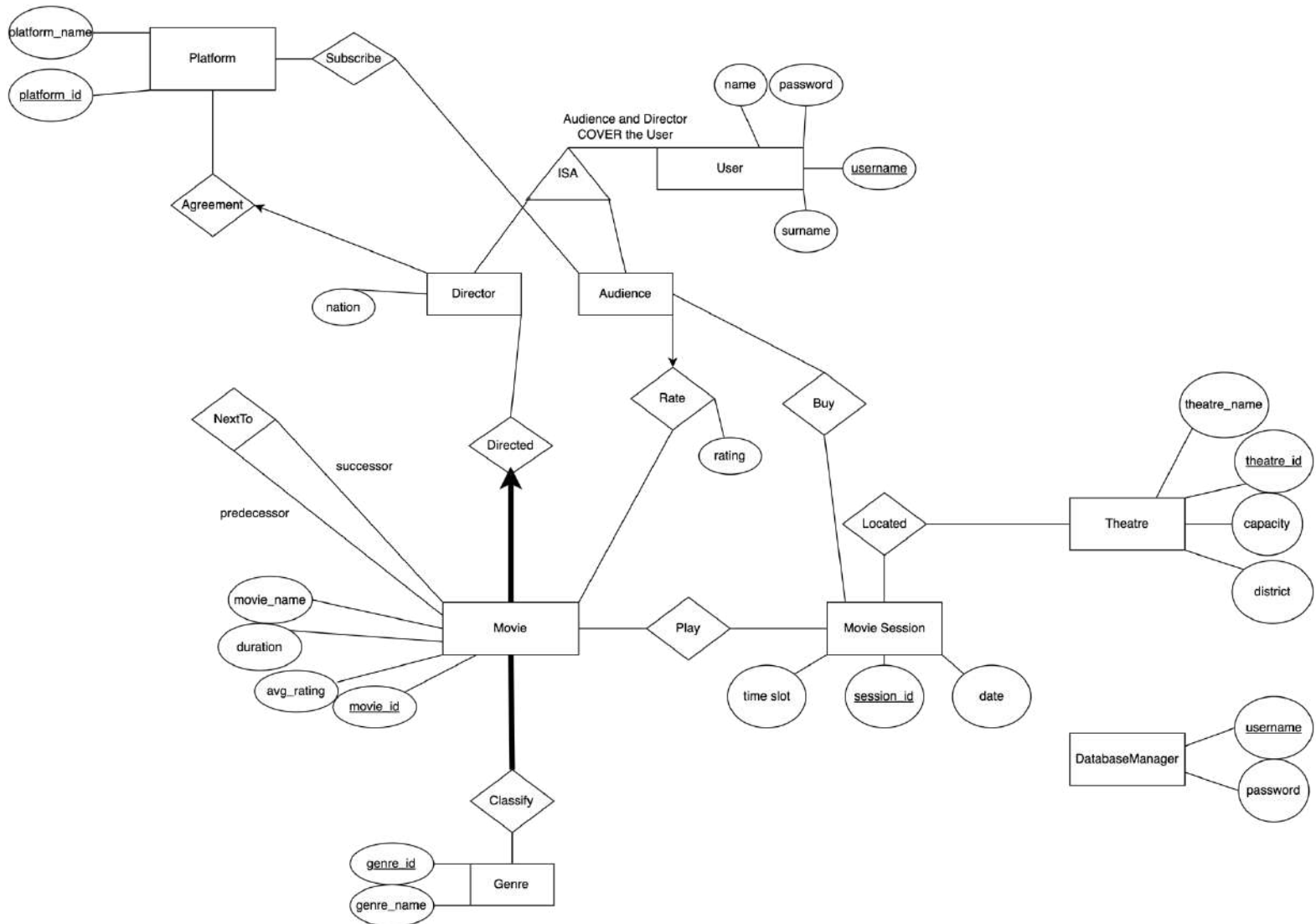


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Part 1: Conceptual Database Design



There are some constraints that we couldn't show in the ER diagram.

No two movie sessions can overlap in terms of theatre and the time it's screened.

Four time slots exist for each day. We show this in createTable.sql with constraint CHK_slot CHECK (time_slot>0 and time_slot<=4)

The duration of the movie is closely related to the time slots. The time slot attribute determines the starting time of the movie, and the end time is determined by the duration.

If a movie has any predecessor movies, all predecessor movies need to be watched in order to watch that movie. We made a recursive relation for movie to show it can be predecessor or successor.

There can be at most 4 database managers registered to the system.

Part 2: Logical Database Design

Users(name:string, password: string, surname: string, username: string)

username	password	name	surname
steven.jobs	apple123	Steven	Jobs
minion.lover	bello387	Felonius	Gru
steve.wozniak	pass4321	Ryan	Andrews
he.gongmin	passwordpass	He	Gongmin
cam.galian	madrid9897	Carmelita	Galiano
kron.helene	helenepass	Helene	Kron
arzucan.ozgur	deneme123	Arzucan	Ozgur
egemen.isgude	deneme124	Egemen	Isguder
busra.oguzoglu	deneme125	Busra	Oguzoglu
peter.weir	peter_weir879	Peter	Weir
kyle.balda	mynameiskyle9	Kyle	Balda

Director(username: string, nation: string)

username	nationality
he.gongmin	Turkish
cam.galian	Turkish
kron.helene	French
peter.weir	Spanish
kyle.balda	German

Audience(username: string)

username
steven.jobs
steve.wozniak
arzucan.ozgur
egemen.isguder
busra.oguzoglu

Platform(platform_name: string, platform_id: integer)

platform_id	platform_name
10130	IMDB
10131	Letterboxd
10132	Filmlzle
10133	Filmora
10134	BollywoodMDB

Theatre(district: string, capacity: integer, theatre_id: integer, theatre_name: string)

theatre_id	theatre_name	theatre_capacity	district
40001	Sisli_1	300	Sisli
40002	Sisli_2	200	Sisli
40003	Besiktas1	100	Besiktas
40004	Besiktas2	100	Besiktas
40005	Besiktas3	500	Besiktas

Movie_Session(date: date, time_slot: integer, session_id: integer)

session_id	time_slot	date
50001	1	15.03.2023
50002	3	15.03.2023
50003	1	15.03.2023
50004	3	15.03.2023
50005	1	16.03.2023
50006	3	16.03.2023
50007	1	16.03.2023
50008	3	16.03.2023
50009	1	16.03.2023

Database_Manager(password: string, manager_username: string)

username	password
manager1	managerpass1
manager2	managerpass2
manager35	<u>managerpass35</u>

Genre(genre_name: string, genre_id: integer)

genre_id	genre_name
80001	Animation
80002	Comedy
80003	Adventure
80004	Real Story
80005	Thriller
80006	Drama

Directed_Movie(movie_name: string, duration: integer, movie_id: integer, username:string)

movie_id	name	duration	director_use	overall_rating
20001	Despicable M	2	kyle.balda	5
20001	Despicable M	2	kyle.balda	5
20001	Despicable M	2	kyle.balda	5
20002	Catch Me If Y	2	he.gongmin	
20003	The Bone Co	2	carm.galian	
20004	Eagle Eye	2	kron.helene	5
20005	Minions: The	1	kyle.balda	5
20006	The Minions	1	kyle.balda	5
20007	The Truman	3	peter.weir	5

Classify(movie_id: integer, genre_id: integer)

movie_id	genre_list
20001	80001
20001	80002
20002	80003
20002	80004
20003	80005
20004	80003
20005	80001
20005	80002
20006	80001
20006	80002
20007	80002
20007	80006

Next_To(pre_id: integer, suc_id: integer)

suc_id	pre_id
20005	20001
20005	20006
20006	20001

Located(session_id: integer, theatre_id: integer)

session_id	theatre_id
50001	40001
50002	40001
50003	40002
50004	40002
50005	40003
50006	40003
50007	40004
50008	40004
50009	40005

Play(session_id: integer, movie_id: integer)

session_id	movie_id
50001	20001
50002	20001
50003	20001
50004	20002
50005	20003
50006	20004
50007	20005
50008	20006
50009	20007

Rate(username: string, movie_id: integer, rating:real)

username	movie_id	rating
egemen.isguder	20001	5
egemen.isguder	20005	5
egemen.isguder	20006	5
arzucan.ozgur	20004	5
busra.oguzoglu	20007	5

Buy(username: string, session_id: integer)

username	list_of_bought_sessions
steven.jobs	50001
steve.woznial	50004
steve.woznial	50005
arzucan.ozgu	50006
egemen.isgur	50008
egemen.isgur	50004
egemen.isgur	50007
egemen.isgur	50001
busra.oguzog	50009

Agreement(username: string, platform_id: integer)

username	platform_id
he.gongmin	10130
carm.galian	10131
kron.helene	10130
peter.weir	10131
kyle.balda	10132

Subscribe(username: string, platform_id: integer)

username	list_of_rating_platforms
steven.jobs	10130
steven.jobs	10131
steve.woznial	10131
arzucan.ozgu	10130
egemen.isgur	10132
busra.oguzog	10131