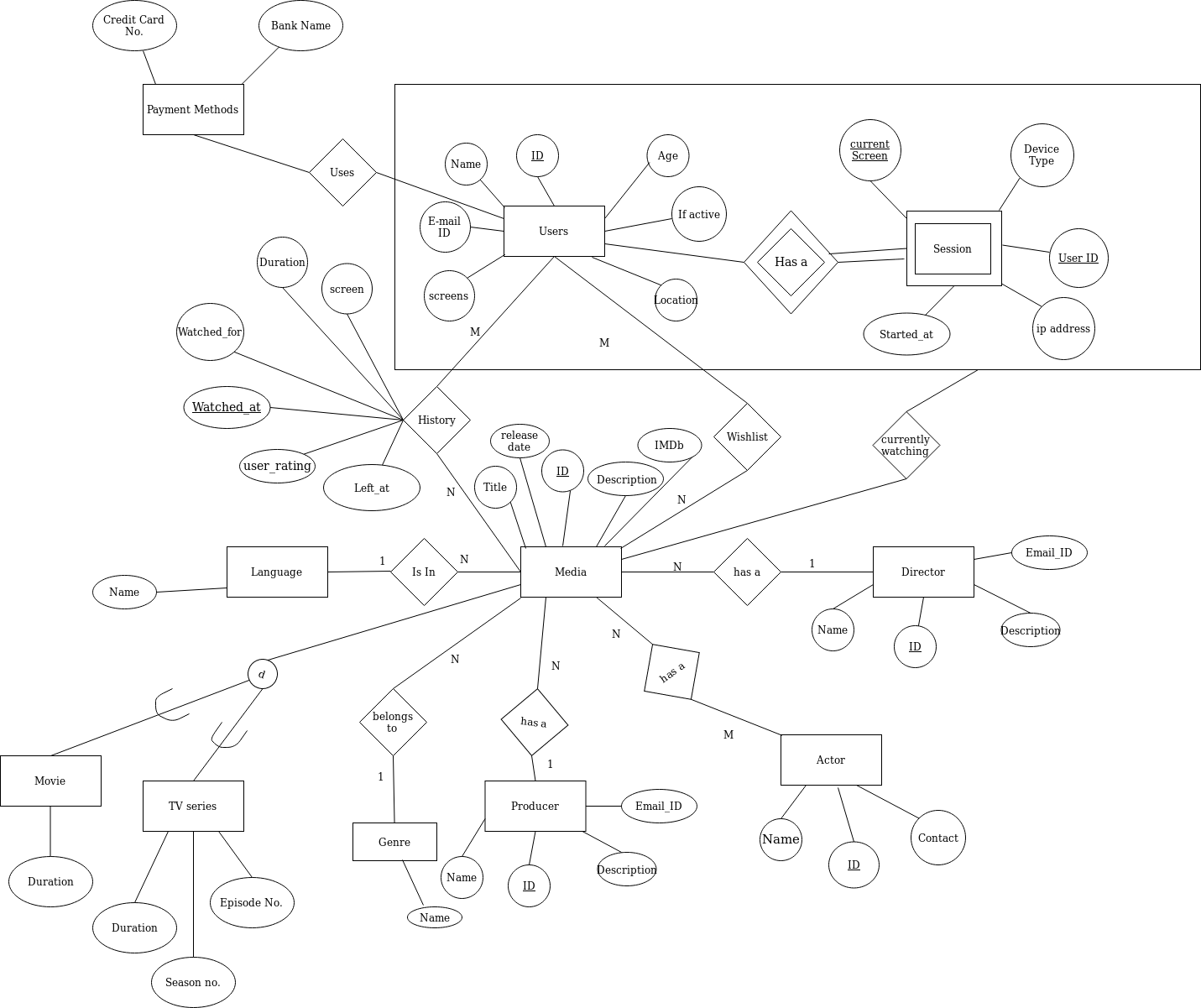
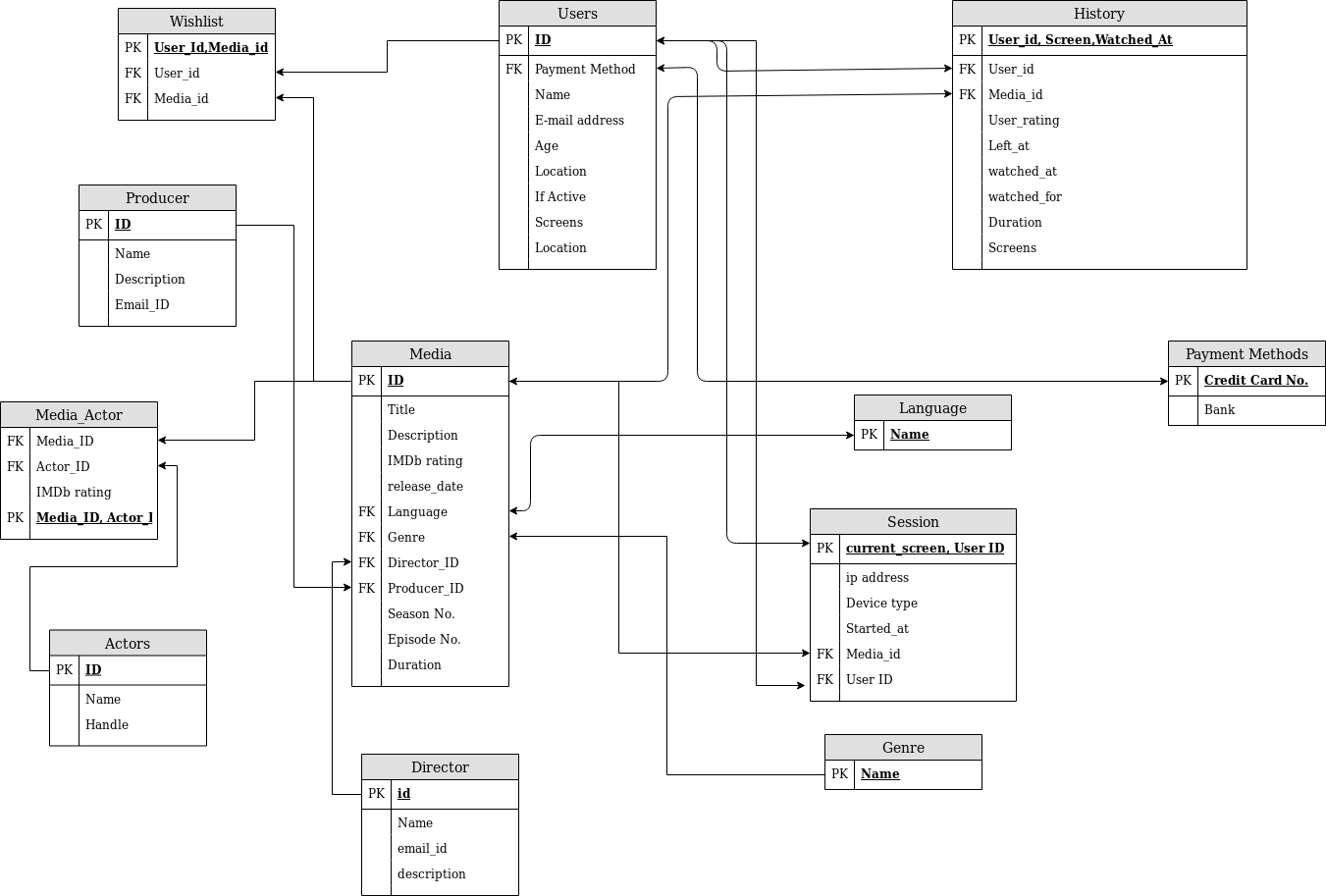
ER Diagram



Relational Schema



Minimal FD set and BCNF

**RELATION(R1): USERS(User\_ID, Name, Email\_ID, Age, Location, screens, If active, Payment Method)**

User\_ID →Name

User\_ID →Email\_ID

User\_ID →Age

User\_ID →Location

User\_ID →screens

User\_ID →If active

USER\_ID →Payment Method

**It is BCNF.**

**RELATION(R2): MEDIA(Media\_ID, Title, Description, IMDb rating, release\_date, Language, Genre\_ID, Director\_ID, Producer\_ID, Season No, Episode No., Duration)**

Media\_ID → Title

Media\_ID → Description

Media\_ID → IMDb rating

Media\_ID → release\_date

Media\_ID → Language

Media\_ID → Genre\_ID

Media\_ID →Director\_ID

Media\_ID →Producer\_ID

Media\_ID →Season No.

Media\_ID →Epsiode No.

Media\_ID →Duration

**It is BCNF.**

**RELATION(R3): Actors(ID, Name, Contact, Description)**

ID → Name

ID →Contact

ID →Description

**It is BCNF.**

**RELATION(R4): Media\_Actors(Media\_ID, Actor\_ID, IMDb rating)**

Media\_ID, Actor\_ID →IMDb rating

**It is BCNF.**

**RELATION(R5): Director(ID, Name, Email-ID, Description)**

ID →Name

ID →Email-ID

ID →Description

**It is BCNF.**

**RELATION(R6): Producer(ID, Name, Email\_ID Description)**

ID →Name

ID → Email\_ID

ID →Description

**It is BCNF.**

**RELATION(R7): Wishlist(User\_ID, Media\_ID)**

**It is BCNF.**

**RELATION(R8): Session(Current\_screen, UserID, IP\_Address, Device type, Started\_At, Media\_ID)**

Current\_screen, UserID→ IP\_Address

Current\_screen, UserID→Device type

Current\_screen, UserID→Started\_At

Current\_screen, UserID→Media\_ID

**It is BCNF.**

**RELATION(R9): Language( Language)**

**It is BCNF.**

**RELATION(10): Genre( Name)**

**It is BCNF.**

**RELATION(R11): History(User\_id, Screen, Watched\_at, Media\_ID, User\_rating, Left\_at, Watched\_for)**

{User\_id, Screen, Watched\_at} →Media\_ID

{User\_id, Screen, Watched\_at} →User\_rating

{User\_id, Screen, Watched\_at} →Left\_at

{User\_id, Screen, Watched\_at} →Watched\_for

**It is BCNF.**

**RELATION(R12): Payment Methods(Credit Card No., Bank)**

Credit Card No. →Bank

**It is BCNF.**