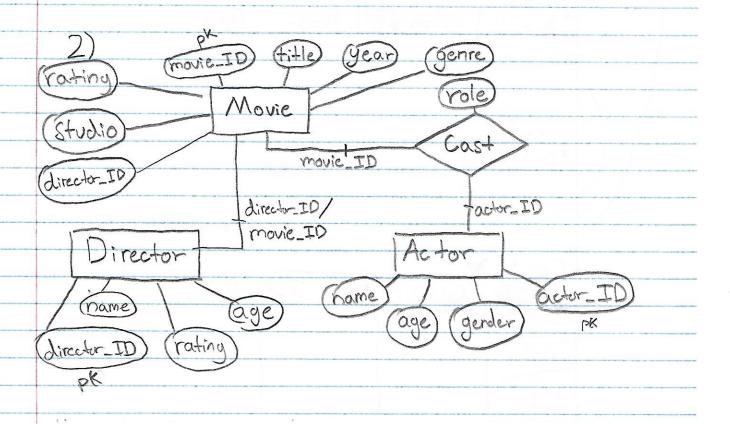
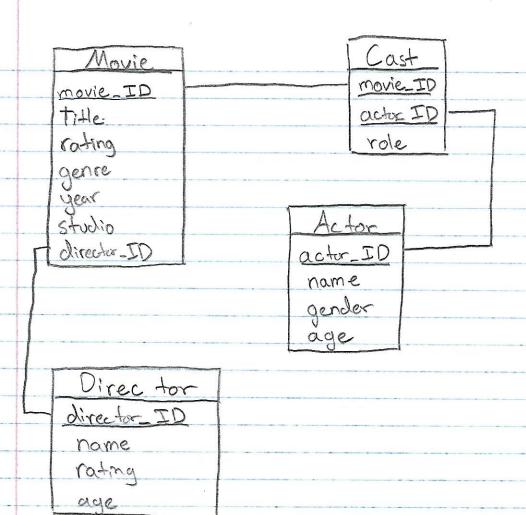
Part A: Movies

1) Our application supports various Kinds of queries (for example: search by titles, ratings, year, or you can search for actors or directors and they're respective movies). Every new movie added updates the movie attributes, director attributes, actor attributes and so on) more over the ratings for movies can be continuely updated.



Movie to Actor: many to many Movie to Director: one to many



Part B: Normalization

1.1) Minimal Cove

1. Store > Type, Size
2. Store, Week Date > Temperature, Fuel Price, CPI, Unemployment Rate
3. Week Date > Is Holiday
4. Store, Dept, Week Date > Weekly Sales

1.2) BCNF Decomposition

Sales = R (Steve, Dept, Weeh Date, Weehly Sales, Is Holiclay, Type, Size,

Temperature, Fuel Price, CPI, Unemployment Rate).

BCNF Sales = R, (Store, Dept, WeehDate, Weehly Sales), Rz (Store, Type,

Size), Rz (Store, WeehDate, Temperature, FuelPrice, CPI,

Unemployment Rate), Ry (WeehDate, Is Holiday).

Where: Stere, Dept, + Week Date are primery/forerga Rey,