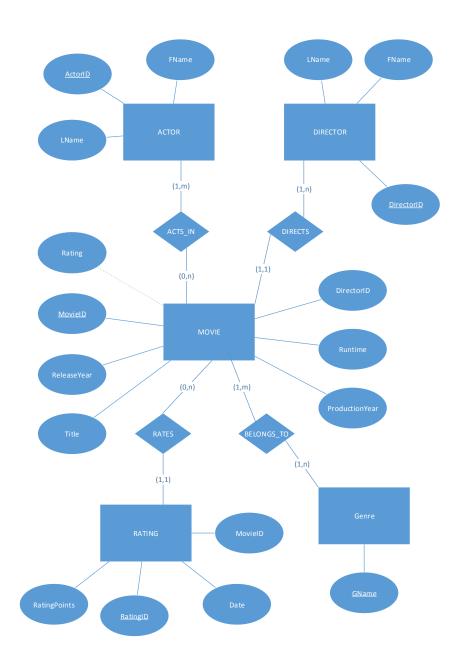
## Dokumentation zum Datenbankprojekt

Katharina Chowanski / Marvin Kleinert / Marius Schidlack 22. Mai 2015

## Iteration 1: Modellierung

 $1. \ \, {\rm Entity-Relationship-Modell}$ 



## 2. Relationales Modell

```
MOVIE (Title: varchar(255); MovieID: int8; ReleaseYear: interval YEAR; Produc-
  tionYear: interval YEAR; Runtime: int4; DirectorID: int8; Rating: float4)
  ACTOR (ActorID: int8; FName: varchar(255); Lname: varchar(255))
  DIRECTOR (DirectorID: int8; FName: varchar(255); LName: varchar(255))
  RATING (RatingID: int8; Date: date; RatingPoints: int4; MovieID: int8)
  GENRE (GName: varchar(255))
  ACTS_IN (MovieID: int8; ActorID: int8)
  BELONGS_TO (GName: varchar(255); MovieID: int8)
3. CREATE-Statements
  CREATE TABLE MOVIE
  (Title
                                       varchar (255) NOT NULL,
  MovieID
                                       int8 NOT NULL,
  Release Year
                                       interval YEAR,
  ProductionYear
                                       interval YEAR,
  Runtime
                                       int4,
  DirectorID
                                       int8 NOT NULL,
  Rating
                                       float4,
  PRIMARY KEY (MovieID),
  FOREIGN KEY (DirectorID) REFERENCES DIRECTOR (DirectorID)
  );
  CREATE TABLE ACTOR
  (ActorID
                                       int8 NOT NULL,
  FName
                                       varchar (255),
  LName
                                       varchar(255),
 PRIMARY KEY (ActorID)
  );
  CREATE TABLE DIRECTOR
  (DirectorID
                                       int8 NOT NULL,
  FName
                                       \mathbf{varchar}(255),
  LName
                                       varchar(255),
  PRIMARY KEY (DirectorID)
  );
  CREATE TABLE RATING
  (RatingID
                                       int8 NOT NULL,
  Date
                                       date,
                                       int4,
  RatingPoints
  MovieID
                                       int8 NOT NULL,
 PRIMARY KEY (RatingID),
  FOREIGN KEY (MovieID) REFERENCES MOVIE (MovieID)
```

```
);
CREATE TABLE GENRE
(GName
                                 varchar (255) NOT NULL,
PRIMARY KEY (GName)
);
CREATE TABLE ACTS IN
                                 int8 NOT NULL,
(MovieID
ActorID
                                 int8 NOT NULL,
PRIMARY KEY (MovieID, ActorID),
FOREIGN KEY (MovieID) REFERENCES MOVIE(MovieID),
FOREIGN KEY (ActorID) REFERENCES ACTOR (ActorID)
);
CREATE TABLE BELONGS.TO
                                 varchar (255) NOT NULL,
(GName
                                 int8 NOT NULL,
MovieID
PRIMARY KEY (GName, MovieID),
FOREIGN KEY (GName) REFERENCES GENRE (GName),
FOREIGN KEY (MovieID) REFERENCES MOVIE (MovieID)
);
```