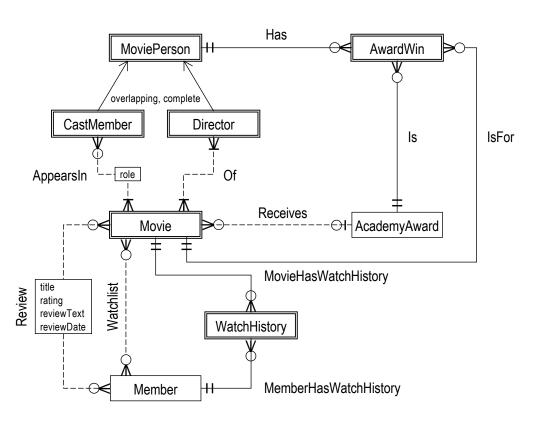
COMP 3311: Database Management Systems

Movie Streaming Management System

Task 1: Entity-Relationship Schema Example Design



Member

username

pseudonym (unique)
firstName
lastName
occupation
email (unique)
gender
birthdate
phoneNumber
educationLevel
cardholderName
cardNumber
cardType
securityCode
expiryMonth
expiryYear

AcademyAward

awardName

AwardWin

CastMember

Director

title
poster
synopsis
{genre}
releaseYear
runningTime
MPAARating
IMDBRating

Movie

MoviePerson

name photo biography gender birthdate deathdate

WatchHistory

watchDate watchTime

Marking Scheme

Concept	Count	Marks per	Total Marks	Notes
Entities	8	2	16	AcademyAward, AwardWin, Actor, Director, Member, Movie, MoviePerson, WatchHistory
Attributes of entities	32	0.5	16	
multi-valued attributes	1	2	2	genre
Key/unique attributes	4	2	8	keys: awardName, username; unique: pseudonym, email
Relationships	10	2	20	
Attributes of relationships	5	1	5	
Relationship constraints	40	0.5	20	
Identifying relationships	5	1	5	
MoviePerson generalization	1	3	3	2 marks for generalization; 1 mark for coverage constraint
Presentation	1	5	5	
TOTAL			100	

Notes:

- 1. Different concepts from the sample solution can get the same marks if they represent the requirements correctly/adequately.
- 2. The Relationships mark is for having a correct <u>and</u> named relationship.
- 3. The Relationship constraints mark is for each cardinality and each participation constraint for each end of a relationship.
- 4. The Identifying relationships mark is for each identifying relationship.

Deductions

- 0.5 mark for a missing relationship name or incorrect identifying relationship.
- 1 mark for each operation that is included in a design.
- 1 mark for each unnecessary surrogate key, each incorrect discriminator and each incorrect unique attribute.
- 2 marks for an incorrect relationship (i.e., it relates the wrong entities, or it is incorrectly represented).