

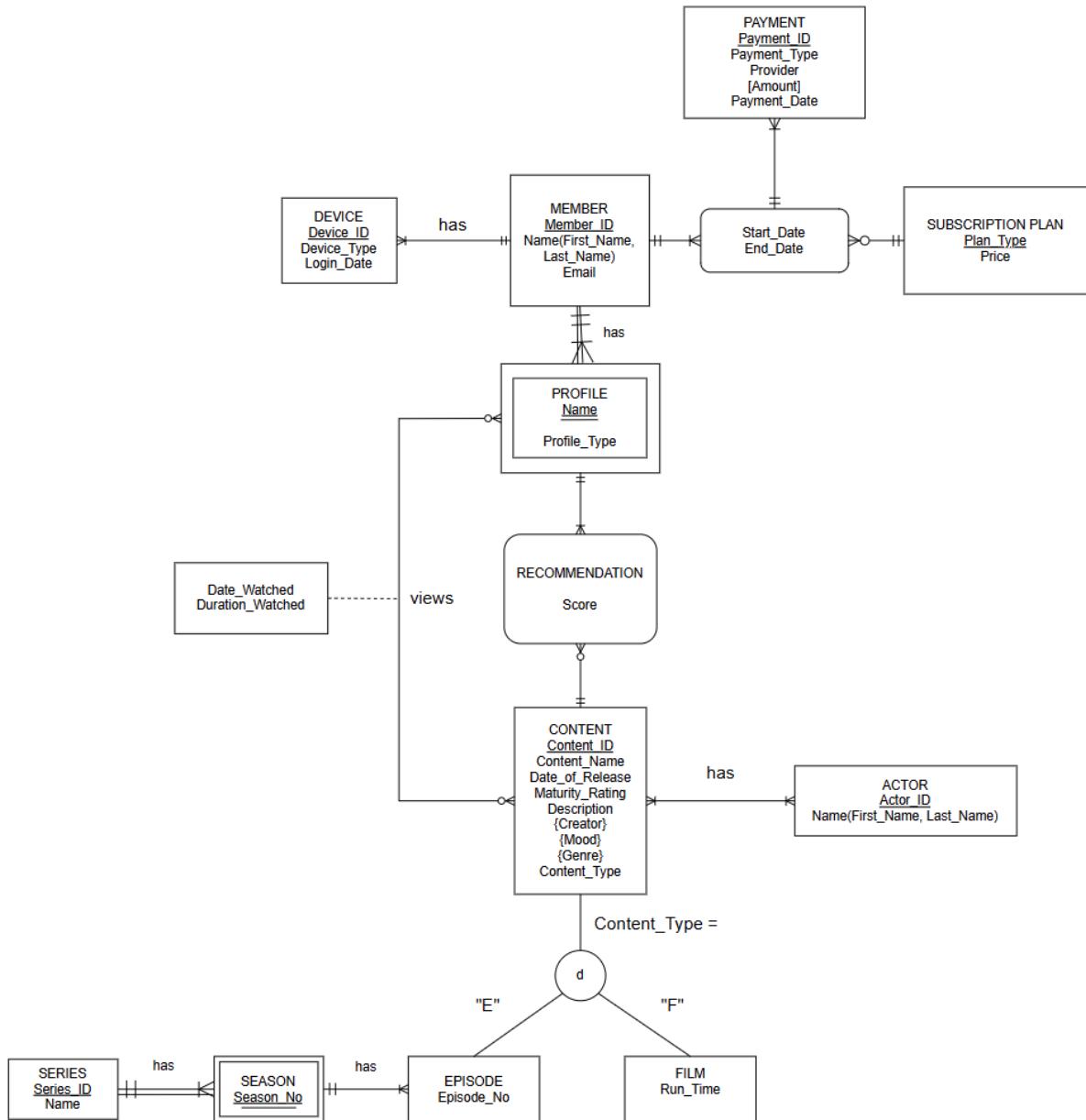


**Group Project: Phase II
Netflix LD Diagram**

**Section G4
Team 2**

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1. Updated ER Diagram



2. Changed Business Requirements

Each member (*previously profile*) has a specific number of active watching devices (respective to the subscription plan: Basic - 1 device, Standard - 2 devices, Premium - 4 devices). A member has one or more devices but a device belongs to one and only one member.

A member can purchase different subscription plans over time, though at one point in time a member can only own one subscription plan. The start date and end date of subscription is captured to show how long a member subscribes to a specific plan.

An actor, uniquely identified by a unique Actor ID, can be in one or more pieces of content. A piece of content can be recommended to zero or many profiles. Content on Netflix mainly falls under one of two categories. The first category, films, are content with a specified

run-time. The second category, episode, details content that have multiple episodes, and are denoted by episode numbers. Each episode belongs to a season, which can be identified by its series ID and season number. A series is identified by its unique series ID and has one or more seasons with many episodes.

Updated Business Rules

- Netflix users are called members. A member is uniquely identified by their member ID. When signing up for a Netflix account, members must input their first name, last name and email.
- A member can purchase different subscription plans over time, though at one point in time a member can only own one subscription plan. The start date and end date of subscription is captured to show how long a member subscribes to a specific plan. There are three tiers of Netflix's subscription model (basic, standard, and premium), provided on a monthly basis at varying prices.
- Members can use at least one payment method to pay for their subscription plan.
- Netflix records each payment with a payment ID, payment type, provider, details of the amount and payment date.
- A Netflix account is designed for people who live in a single household. Therefore, Netflix allows each member to create up to five profiles.
- A member must have at least one profile. Each profile is tied to one member.
- Each profile is partially identified by its name and the member ID.
- Each profile has a profile type, denoting an adult account or a kids account.
- Each member has a specific number of active watching devices (respective to the subscription plan: Basic - 1 device, Standard - 2 devices, Premium - 4 devices). A member has one or more devices but a device belongs to one and only one member.
- Each device's login date will be recorded.
- Netflix records the viewing history for each profile, with the date watched and duration watched of a piece of content. A piece of content can be viewed multiple times.
- The score for each content recommendation is stored after being generated by the recommendation algorithm.
- A profile can receive multiple recommendations, but each recommendation is only tied to one profile.
- A piece of content can be recommended to zero or many profiles.
- Content on Netflix mainly falls under one of two categories. The first category, series, details content that have episodes and seasons. The second category, films, are content with a specified run-time.
- However, there are other types of special content that do not have a defined category. For example, past live shows that are recorded and re-released on Netflix.
- Each piece of content on Netflix is uniquely identified by their content ID and contains details on the date of release, content name, maturity rating, description, creator(s), mood(s) of the content, and genre(s).
- An actor, uniquely identified by their first and last name, can be in one or more pieces of content.

3. LD Diagram

