Database Systems (INFO20003) Assignment 1

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Netflix ER Model

Assumptions

- Assuming user avatar photos can be accessed by their filename.

- Assuming that when a purchaser creates a new subscription after cancelling a previous one, users from the previous subscription are automatically subscribed to the new subscription.

- Assuming that after a user reviews (likes or dislikes) a show, they can change or remove their review.

- Assuming that when a subscription is cancelled, payment details of the purchaser of the subscription are automatically deleted. Purchasers can purchase a new subscription in future with new payment details.

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Netflix Conceptual ER Model

Address
- AddressID BIGINT
- NumberStreet VARCHAR(200)
- Suburb VARCHAR(45)
- State VARCHAR(45)
- Country VARCHAR(45)

Purchaser
- PurchaserEmail VARCHAR(200)
- FirstName VARCHAR(45)
- LastName VARCHAR(45)
- AddressID BIGINT
- Phone VARCHAR(20)
- AlternatePhone VARCHAR(20)
- PaymentDetailsID BIGINT

PaymentDetails
- PaymentDetailsID BIGINT
- AccountName VARCHAR(200)
- CreditCardNumber CHAR(16)
- ExpiryMonth TINYINT
- ExpiryYear YEAR

located at — *pays through*

SubscriptionType
- SubscriptionTypeID BIGINT
- Type ENUM('Basic', 'Standard', 'Premium')
- MonthlyRate DOUBLE
- CanStreamHD TINYINT(1)
- MaxSimultaneousDevices BIGINT

Subscription
- SubscriptionID BIGINT
- SubscriptionTypeID BIGINT
- PurchaserEmail VARCHAR(200)
- PurchaseDate DATE
- NextPaymentDueDate DATE
- CurrentSimultaneousDevices BIGINT
- EndDate DATE

Payment
- SubscriptionID BIGINT
- PaymentID BIGINT
- PaymentDate DATE
- PaymentAmount DOUBLE

purchased by — *of type* — *paid for by* — *subscribed to*

UserFilmViews
- SubscriptionID BIGINT
- UserID BIGINT
- FilmID BIGINT
- ViewNumber BIGINT
- StartDateTime DATETIME
- StoppedDuration DOUBLE

User
- SubscriptionID BIGINT
- UserID BIGINT
- Nickname VARCHAR(45)
- AvatarPhotoLink VARCHAR(200)
- MaturityLevel ENUM('G', 'PG', 'M', 'MA 15+', 'R 18+')

UserEpisodeVi...
- SubscriptionID BIGINT
- UserID BIGINT
- SeriesID BIGINT
- SeasonID BIGINT
- EpisodeID BIGINT
- ViewNumber BIGINT
- StartDateTime DATETIME
- StoppedDuration DOUBLE

watches — *watches* — *reviews* — *reviews* — *watched by*

UserFilmReviews
- SubscriptionID BIGINT
- UserID BIGINT
- FilmID BIGINT
- Review ENUM('Like', 'Dislike')

UserSeriesReviews
- SubscriptionID BIGINT
- UserID BIGINT
- SeriesID BIGINT
- Review ENUM('Like', 'Dislike')

Episode
- SeriesID BIGINT
- SeasonID BIGINT
- EpisodeID BIGINT
- Title VARCHAR(45)
- ReleaseDate DATE
- MediaURL VARCHAR(200)
- Duration DOUBLE
- Size DOUBLE

watched by — *reviewed by* — *reviewed by*

Film
- FilmID BIGINT
- Title VARCHAR(100)
- ReleaseDate DATE
- StudioName VARCHAR(100)
- MaturityRating ENUM('G', 'PG', 'M', 'MA 15+', 'R 18+')
- MediaURL VARCHAR(200)
- Duration DOUBLE
- Size DOUBLE
- DecomissionDate DATE

Series
- SeriesID BIGINT
- Title VARCHAR(100)
- FirstReleaseDate DATE
- LastReleaseDate DATE
- CreatorName VARCHAR(200)
- MaturityRating ENUM('G', 'PG', 'M', 'MA 15+', 'R 18+')
- DecomissionDate DATE

Season
- SeriesID BIGINT
- SeasonID BIGINT
- Title VARCHAR(100)

formed by — *formed by* — *described by* — *described by* — *appeared in* — *appeared in*

FilmKeywords
- FilmID BIGINT
- KeywordID BIGINT

SeriesKeywords
- SeriesID BIGINT
- KeywordID BIGINT

describes — *describes*

FilmTop10Appear...
- FilmID BIGINT
- AppearanceNumber BIGINT
- Rank INT
- StartDate DATE
- EndDate DATE

Keyword
- KeywordID BIGINT
- Keyword VARCHAR(100)

SeriesTop10Appe...
- SeriesID BIGINT
- AppearanceNumber BIGINT
- Rank INT
- StartDate DATE
- EndDate DATE