Sponsorships Relational Mapping – Relational Algebra Queries

**TẤT CẢ ATTRIBUTE ĐỀU ĐƯỢC VIẾT lowercase TRONG DATABASE THẬT.**

**Users** (*UserID*, Username, Password, Email, Dob, Nationality, Account\_create\_date, Credit\_card\_number, Profile\_picture)

PK: *UserID*

**Streamers** (*StreamerID*, Username, Password, Email, Dob, Nationality, Account\_creation\_date, Credential\_card\_number, Profile\_picture)

PK: *StreamerID*

**Brands** (*BrandID*, Name, Email)

PK: *BrandID*

**Videos** (*VideoID*, Title, URL, Thumbnail, Peak\_viewer, Average\_viewer, Start\_time, End\_time)

PK: *VideoID*

**Genres** (*GenreID*, Name, Trending\_score)

PK: *GenreID*

**Stream** (*VideoID*, StreamerID)

PK: *VideoID*

FK: VideoID to Video.VideoID, StreamerID to Streamer.StreamerID

NOT NULL: StreamerID

Check total participation of Video.VideoID in Stream

**Offer** (*SponsorshipID*, BrandID)

PK: *SponsorshipID*

FK: SponsorshipID to Sponsorship.SponsorshipID, BrandID to Brand.BrandID

NOT NULL: BrandID

Check total participation of Sponsorship.SponsorshipID in Offer

**Follow** (*UserID*, *StreamerID*, Start\_date)

PK: *UserID*, *StreamerID*

FK: UserID to User.UserID, StreamerID to Streamer.StreamerID

**Subscribe** (*UserID*, *StreamerID*, Start\_date)

PK: *UserID*, *StreamerID*

FK: UserID to User.UserID, StreamerID to Streamer.StreamerID

**Donate** (*UserID*, *StreamerID*, Donation\_message, Donation\_amount)

PK: UserID, StreamerID

FK: UserID to User.UserID, StreamerID to Streamer.StreamerID

**Watch** (*UserID*, *VideoID*)

PK: *UserID*, *VideoID*

FK: UserID to User.UserID, VideoID to Video.VideoID

**Partner** (*StreamerID*, *BrandID*, Twitch\_payment, Payment\_per\_viewer, Payment\_per\_code\_user, Start\_date, End\_date)

PK: *StreamerID*, *BrandID*

FK: StreamerID to Streamer.StreamerID, BrandID to Brand.BrandID

**Include** (*VideoID*, *SponsorshipID*)

PK: *VideoID*, *SponsorshipID*

FK: VideoID to Video.VideoID, SponsorshipID to Sponsorship.SponsorshipID

**Has** (*VideoID*, *GenreID*)

PK: *VideoID*, *GenreID*

FK: VideoID to Video.VideoID, GenreID to Genre.GenreID

Check total participation of Video.VideoID in Has

**Periods** (*PeriodID*, *UserID, VideoID, Start\_time, End\_time*)

PK: *PeriodID*, *UserID, VideoID*

FK: UserID to User.UserID, VideoID to Video.VideoID

**Phone\_numbers** (a\_*Phone*, *BrandID*)

PK: *PhoneID*, *BrandID*

FK: BrandID to Brand.BrandID

**Addresses** (an\_*Address*, *BrandID*)

PK: *AddressID*, *BrandID*

FK: BrandID to Brand.BrandID

**Codes** (a\_*Code*, *SponsorshipID*)

PK: *CodeID*, *SponsorshipID*

FK: SponsorshipID to Sponsorship.SponsorshipID

**Video\_urls** (a\_*VideoUrl*, *SponsorshipID*)

PK: *VideoUrlID*, *SponsorshipID*

FK: SponsorshipID to Sponsorship.SponsorshipID

**Sponsorships** (*SponsorshipID*, Name, Description, Minimum\_time\_req, Minimum\_views\_req, Payout, Expiration\_date, Website\_URL)

PK: *SponsorshipID*

**Referral\_codes** (*SponsorshipID*, User\_count)

PK: *SponsorshipID*

FK: SponsorshipID to Sponsorship.SponsorshipID

**Video\_ads** (*SponsorshipID*)

PK: *SponsorshipID*

FK: SponsorshipID to Sponsorship.SponsorshipID

**Product\_placements** (*SponsorshipID*, Name, Description)

PK: *SponsorshipID*

FK: SponsorshipID to Sponsorship.SponsorshipID