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CSCI 381 Data Modeling

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Changes Committed to Update eMovies to HafsahKamal-eStreamingMoviesSqlServer2019-20220921

Conceptual Display Model:

- Created a Conceptual Data Model which displays minimal high-level entities with business definitions.
- In my previous homework, I had noted only a minimum number of attributes would be reflected in the CDM, but while studying the CDM in the textbook and class notes, I realize a CDM is much more high-level: just the high-level business object and definitions are sufficient.

Logical Display Model:

- Used the bulk editor, Excel (.csv), and Notepad++ to modernize casing from the clunky CAPS case for entity names to PascalCase
- Added entities/tables such as PaymentCheck, PaymentCreditCard, PaymentEpay, along with subclasses of PaymentEpay (NFT and Cryptocurrency).
- Moved attributes from Payment table to above tables in order to have a less crowded table as well as group attributes more appropriately.
- Added exclusive subcategory for relationship between Payment and Payment methods such as Check, Credit Card, or Epay.

Physical Display Model:

- At first I was confused as to why the Pascal case change that I imported via Bulk editor had not changed in the physical section but then rewatching Lecture 7 I noted that this was the case for the class example as well.
- In addition to this, there had been tables I was contemplating removing such as MovieStore, but then I realized it was necessary to keep this table as many-to-many relationships are not supported and that it was acting as a “bridge” between tables Movie and Store.
- I did not make as many changes to the Physical Data Model as I did to the Logical one, but I was happy to see that many of my table changes in the logical view were updated in the physical.
- Lastly, in my previous homework I wanted to try to make a star schema as written in the textbook. Whilst attempting to do this, however, my PDM looked too clustered and messy, so I left it in the hierarchical tree display mode. Perhaps in the next update I will successfully display my PDM in a star schema.