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Database Project Assignment 3: Entity Relationship Diagram & Documentation

- There is a Management table that have three levels of so-called business model which entails the head management is the owner, secondary level which is the tattoo artists and finally the bottom level which is our secretaries. The business has three levels of hierarchy due to artists have a great say in what is needed to the owner because it’s their work that brings in the customers but are a level above the secretaries due to their job is a revolving door where people can come or go as it won’t affect the business. This table has relationships that connects to the market\_dept and store tables is the foreign keys. With a one to one connection with the market\_dept and a one to many connection with the store.

- The store table has relationship connections to the ArtistStore and Management tables is the foreign keys. The store table is used to help find out which store each tattoo artist is working at and what name its called, the location, address and of course the hours of operation. This table is aimed to keep data pertaining to just general information that the public might need about the Ink 4 Life store. It has a many to one connection for both the management and artist store tables.

- The ArtistStore table has a relationship connection with the TattooArtist and Store as its foreign key. This table is a join table with many to one with the store and tattooArtist tables because many artist can work in one store and many stores can have artist. In this table it is used to help locate which store an artist is working at with its many locations.

- The market\_dept has relationship connections to management and the customer tables as the foreign keys. In there the data that will be stored will be all of the marketing tools used to showcase the Ink 4 Life store. Like on social media, marketing in newspapers or billboards, and of course apparel for men and women. It has a one to one connection with he marketing table and a one to many with the customer table due to the market\_dept has many customers but there is only one market\_dept.

- The customer table relationship has connections to TattooStyle, Payment, and Market\_Dept as its foreign keys. The customer is one of the most important tables due to the fact that everything revolves around what the customer wants. There is also the CustomerFName, CustomerLName, and CustomerEmail with all of this data being held in this table. There is a many to one connection with the market\_dept and tattooStyle while it is a one and only one to many or zero with payment table.

- The TattooArtist has connections to ArtistStore, TattooStyles, and Payment as its foreign keys. Also in the table are ArtistFName, ArtistLName, CustomerCom, and TattooArtistHours that’s data is stored in the table. The TattooArtist is the other most important table due to how the artist has certain styles they can do and what their hours are for customers to get tattooed. There is a one to many connection with the tattooStyles and artistStore due to there is many styles that one artist can do and many artist but only one store at a time. While there is a one to many or zero with the payment table due to there can be a payment while also not be.

- The payment table has connections to TattooArtist and Customer table as the foreign keys. With also to creditcard and cash as other data selections. I put this table here as to limit the many to many tables like in class with the inclass activity and how we needed a payment method inbetween so I just implemented it here. This table is straightforward with what its use is for and what needs to be in it. There is a many or zero to one connection for both the tattooArtist and Customer table because they can receive payment or not with having many customers or artist but only one payment.

- The tattoo styles table is my last table and it has relationship connections to tattooArtist and Customer as the foreign keys. With all the data being saved in this table that covers artistry from Traditional, Realistic, Tribal, Neo-Traditional, Japanese and Blackwork Tattoos. This table will be able to connect our customer with the correct tattoo artist that they would like for their tattoo. There is a one to many for both the tattooArtist and customer tables due to there can be many customers but they can only choose on tattooStyle at a time and there can be many styles but the tattoo artist can only do one at a time.