Database Project Assignment 3: Entity Relationship Diagram & Documentation

Create an ERD for your database.

* Use a computer software, such as lucid chart or MS Visio
* Identify any foreign keys
* Identify primary keys
* Describe relationships between your tables using crows foot notation.
* Include 6 to 8 entities in your design

For each **table** in your ERD, you should have a paragraph explaining:

* What data is in this table?
* What attributes are included?
* Are there any foreign keys?
* What is the primary key?
* What table(s) does this table have a relationship with?
* What is the relationship between the tables, and why is it that?

HR Dept Table

* HR keeps track of employee information such as their first and last name, their address, their positions, if they’re hourly or salary, and the amount they are paid, what store they belong to and its store information.
* Attributes for Employee Entity: E\_ID, F\_Name, L\_Name, DOB, Street, City, State, Zip\_Code, Position\_ID, HoursWorked, StoreNum\_ID, Phone
* Attributes for Position Entity (Keeps track of the position of their job): Position\_ID, ExemptStatus, PayRate, YearlyPTO
* Attributes for Store (Keeps track of the store the employee is associated, if any): StoreNum\_ID, Street, City, State, Zip\_Code, Phone
* Primary Keys: Employee w/ E\_ID; Position w/ Position\_ID, Store w/ StoreNum\_ID
* Foreign Keys: Employee w/ Position\_ID, StoreNum\_ID
* Relationships: W/ Operations Dept - Retail Table & IT Dept
* Relationship W/ Ops - Retail: Provides information of the store and employee who sold/tendered the transaction so that the receipt can reference who touched the order.
* Relationship W/ IT: Provides info of the employee who initially and who closed the ticket so that they can be identified and be provided support.

Operations Dept – Retail Table:

* Ops – Retail keeps track of operations on the retail side such as merchandise info, such as brand and material/fabric, and tracks the orders/purchases.
* Attributes for Order Entity: order\_id, list\_price, order\_status, order\_date, shipped\_date, E\_ID, StoreNum\_ID, product\_id, quantity, C\_ID, discount
* Attributes for Product Entity: product\_id, product\_name, product\_type, brand\_id, gender, riding\_style, price, product\_material\_id, product\_size, product\_color
* Attributes for Brand entity: brand\_id, brand\_name, brand\_phone, brand\_warranty
* Attributes for Material/Fabric Entity: product\_material\_id, product\_material\_name
* Attributes for Customer: C\_ID, C\_FName, C\_LName, DOB, Street, City, State, Zip\_Code, Phone
* Primary Keys: Order w/ order\_id, Product w/ product\_id, Brand w/ brand\_id, Material/Fabric w/ product\_material\_id, Customer w/ C\_ID
* Foreign Keys: Order w/ E\_ID, StoreNum\_ID, product\_id, C\_ID; Product w/ brand\_id, product\_material\_id
* Relationships: W/ HR Dept
* Relationship W/ HR: Gets info from the employee and store who sold the merch to the customer

IT Dept:

* Keeps track of tickets
* Attributes for Ticket Entity: Ticket\_ID, E\_ID, channel, openDate, closeDate
* Primary Key: Ticket\_ID
* Foreign Key: E\_ID
* Relationships: W/ HR Dept
* Relationship W/ HR: Gets the E\_ID to assign it as the one who opened the ticket so that IT knows who to help

Diagram, schematic

Description automatically generated

Upload your assignment to Moodle and Github. Show your ERD and explain the logic on Flipgrid.