ER Diagram for sleepy Hollow

The Entities in the ER Diagram:

Employee

Sales Calls

Transactions

Products

Inventories

Employee of the month

Employee of the year

Awards

Awards Centre

Certificates

Quota Offers

Login

Assumptions:

1. We have used {} brackets to indicate multi valued attribute.

2. For Award centre entity we have assumed that at a given time, a single award centre gives out multiple awards.

3. For Sales amount transfer we have assumed its a recursive relation from one employee to another employee

4. We have assumed an aggregation for product and inventories so that we could accommodate Quota offers entity in the ER diagram.

5. We assumed that Sales quota is just a value specified by the managers above which the employee would be selected as employee of the month, so we did not include it as an entity in the diagram.

Comments:

During the process of designing the ER diagram, we encountered several challenges that contributed to a dynamic and iterative design process. The determination of cardinality relationships proved to be a nuanced task, requiring careful consideration and occasional revisions to ensure accurate representation.

Extracting relationship attributes from the provided plain text posed another challenge, demanding a meticulous analysis of business rules to unveil implicit details.

Additionally, the concept of aggregation proved to be complex, and connecting the entities with the aggregation was challenging.