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Entity relationship diagram to relational schema

The objective of the project is to generate a formal specification of the methodology of the database schema: Use the ER model to obtain a high-level graphic vision of essential components of the company and how they are Related, then convert er diagram to the SQL (DDL) data definition language, or any database template that you are using the ER template is not based on SQL. The E-R model: the database represented is seen as a graphic design of entities and attributes relationships between these entities - not tables! Relational Model: The database is displayed as tables and its attributes (keys) - we could include restrictions, but will not go to this stage. Note In attributes: Not all attributes in the relational model are attributes in an entity: We can have attributes that are establishing relationships. Representation of the type of entity in the relational model Mapping # 1 (Entities): Each type of entity always corresponds to a relationship --> person (...) Mapping # 2 (attributes): Attributes of a relationship contain at least the simple attributes of a type of entity attributes are valuable suitable attributes, there may be additional attributes (foreign keys) in the table, not found in the people of the ER diagram (SSN, FirstName, Surname, Addressing, Birthdate) Problem: Remember that the type of entity can have multi attributes -Valiados. Possible Solution: Use several lines to represent a single entity (111111, John, 123 Main St, Stamps) (111111, John, 123 Main St, Coins) Problems with this solution: Redundã € the other attributes (never good) entity key The type can no longer be the key to the relationship, the resulting relationship must be transformed more -> normalization is this process of decomposition transformation we will study to help handle this and would result in: # 2-M mapping (multivided attributes): multivided attributes of a key relationship of the entity become your Surround Relationship. People (SSN, FirstName, Lastname, Address, Birthdate) Hobbies (SSN, Hobby) Derivative attributes coded separately in SQL as seen. They are not an attribute in a relationship basic relationship. € Relationship mapping relationship: Connects two or more entities in a John Majors / Relationship in Computer Science Relationship type: set of similar student relationships (type of entity) related to the department (type of entity) by Majorsin (relationship type). DISTISTION - Relationship (Relational Model) - Tuplas Relationship Set (ER) Å € € "describes the relationship between entities of corporate entity types and most types of relationship In the model ER is mapped to the Mapping of Relations (Relational Model) # 3 (1- Many relationships): 1-1 and 1 - Many intercourages between separate entitles do not need to be mapped to a Relationship; The main attributes of the key of the relationship "1" become foreign key attributes of the relationship "many" if no attribute "like", the relationships can be (with Some appropriate attribute rename and additions) Students (Studid, Name, Department) Departments (Studid, Department) Types of Dept Relationship, Chair) can also have attributes in the ER model. "Mapping # 4 (Relationship Attributes) : Any attributes of 1-1 or 1-many relationship can be attached to "many" relationship. Students (Studid, name, department, since) Departments (department, president) Mapping # 5 (many many relationships): Many relationships are always mapped to a separate relationship. PRICE / INFO Add to Lightbox RF Royalty Free Books (ISBN, Title, Author, Copyright, Edition, Pregnancy) Class (Classno, Name, Bedroom, Days, Time) Texts (ISBN, Classno) become part of the relationship of the relationship type, as well as the main main attributes of the types of entity related types (ISBN, classno, Projects (Projid, Name, TotalCost, Startdate) Pieces (UPC, Partname, Weight, WSPRICE) Suppliers (Supid, Name, Address) Sold (Project, UPC, Supid, Date, Preçoão) Relations tend to be verbs; Attributes of relationships are nouns or advocacy problems: recursive relationships can relate entity type elements, for example, the type of relationship relatives relates two elements of the type of authority of the employee: Rivers: Reporting Mary Since 2000 we have not always distinct names for the functions that it is not clear Whoever reports to whom the solution: The name of the role of the relationship type does not need to be equal to the name of the Entity type from which participants are reinforced and supervisor and attribute, since the subordinate and supervisor values are drawn from the function mapping of the type of entity # 7: if the cardinality is of 1-many or 1-1 of a recursive relationship, then a second attribute of the same domain that the key can be added to the entity relationship to establish the relationship. The attributes of the relationship can also be added to the relationship of entity, but can be a good reason to create a separate relationship with the attributes and keys of the entities. Employees (Empid, Name, Address, Salary, Supervisory) People (PID, Name, Address, SpouseId, Mdate) Mapping # 8: For many recursive relationships, you create a relationship including attributes From the relationship, but with the primary keys of the entity included twice, one for each function. Taking multiple marriages are now registered, therefore, many-to-many married à €

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