

Normalization Exercise 2

Database Purpose: Track the history of home sales.

The current database design is listed below:

SoldHomes	
*HomeID	
StreetAddress	
City	
State	
ZipCode	
AgentName	
AgentPhoneNo	
RealEstateCompany	
CompanyStreetAddress	
CompanyCity	
CompanyState	
CompanyZipCode	
SellingPrice	
ClosingDate	

Exercise Description:

- Refine the design on paper to conform to the 3rd normal form and meet the following business rules and design requirements.

Business Rules:

- Track each sale of each home, including the selling price, closing date, and the selling agent.
- Assume only the **selling agent** is tracked.
- Assume there is only **one selling agent for each sale**.
- Assume only the **last name of an agent** is tracked.
- Assume only **one phone number is tracked for an agent**.
- Assume **an agent is associated with only one real estate company**.

Design Requirements:

- All names and addresses are to be entered only once into the database.
- Use Crow's Foot Notation
- Specify the primary key fields in each table by placing PK beside the fields.
- Draw a line between the fields of each table to show the relationships between each table. This line should be pointed directly to the fields in each table that are used to form the relationship.
- Specify which table is on the one side of the relationship by placing a one next to the field(s) where the line starts.
- Specify which table is on the many side of the relationship by placing a crow's feet symbol next to the field(s) where the line ends.