Identifying Entities

Wine:

- NumW (Primary Key)
- Category
- Year
- Degree

Producer:

- NumP (Primary Key)
- FirstName
- LastName
- Region

Harvest (Associative Entity):

- NumW (Foreign Key referencing Wine)
- NumP (Foreign Key referencing Producer)
- Quantity

Relationships

Producer Table: This table contains information about the wine producers (e.g., Red, White, Rose, and Sparkling). Each producer has a unique identifier, usually a primary key like `NumP`, along with other details like FirstName, LastName, and Region information.

Wine Table: This table holds information about individual wines. Each wine entry could include details such as `NumW`, Category, Year, Degree, and a foreign key that references the producer.

Relationship Explanation

1. Wine Table

- NumW is the primary key that uniquely identifies each wine.
- The attributes store additional details like category, year, and degree (alcohol percentage).

2. Producer Table

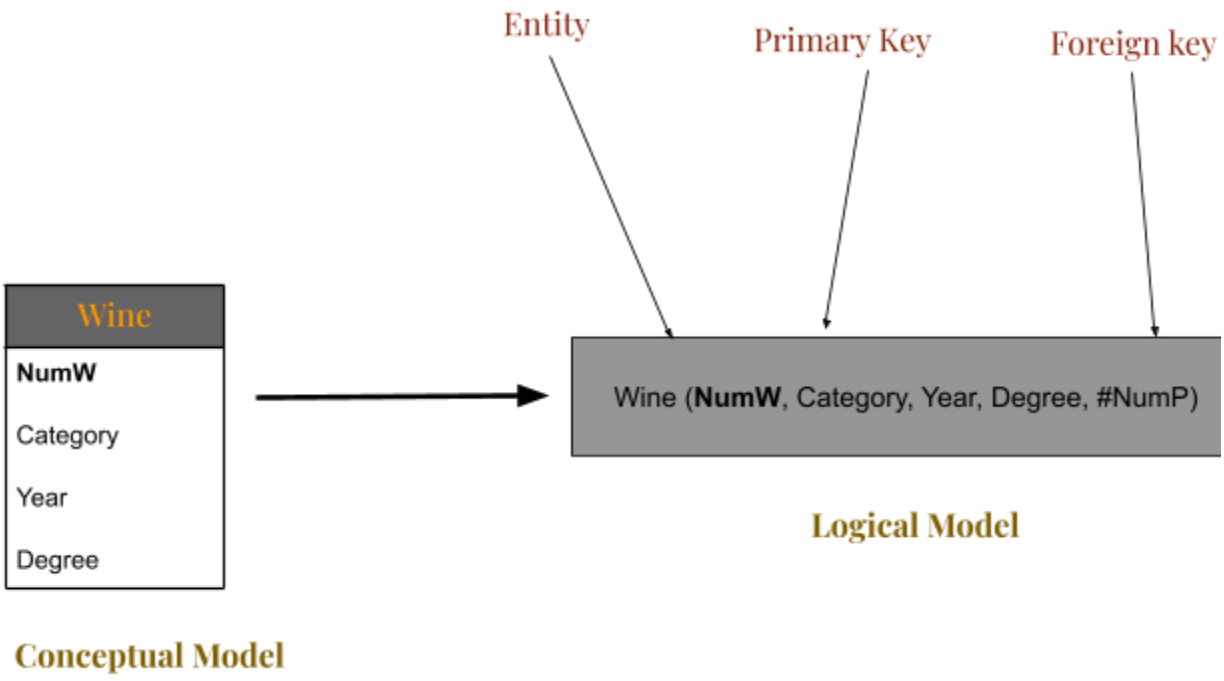
- NumP is the primary key that uniquely identifies each producer.
- Store producer details include the first and last name and the region they are from.

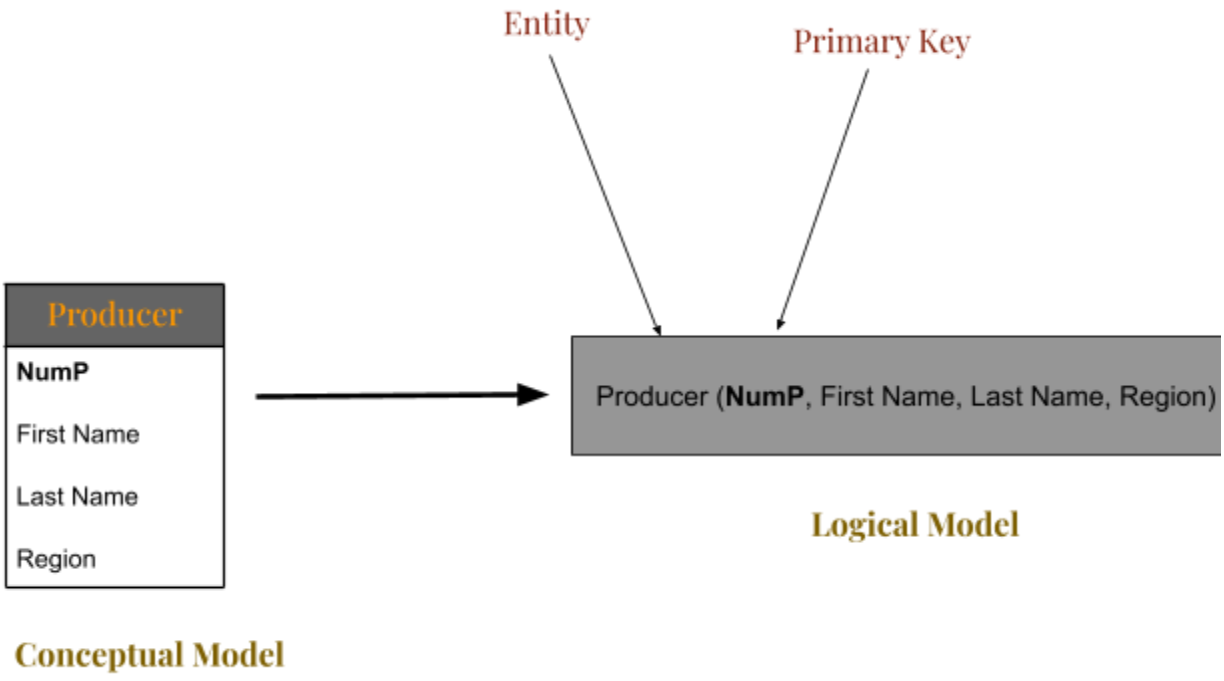
3. Harvest Table (Associative Entity)

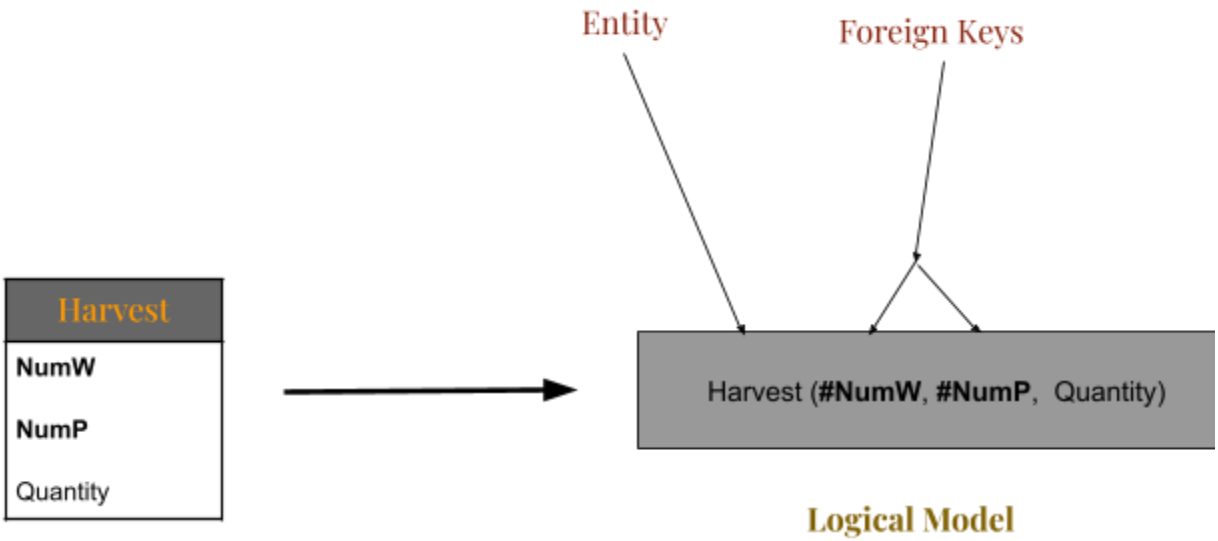
- This table reveals the one-to-many relationship between Wine and Producer.
- NumW and NumP form a composite primary key to ensure uniqueness in the harvest records.
- The quantity represents the amount of wine harvested by a specific producer.

Relational Model

Relational Model






Entity
Foreign Keys
Harvest
NumW
NumP
Quantity
Harvest (#NumW, #NumP, Quantity)
Logical Model
Conceptual Model