



# Nora’s Bagel Bin Database Blueprints

## First Normal Form (1NF)

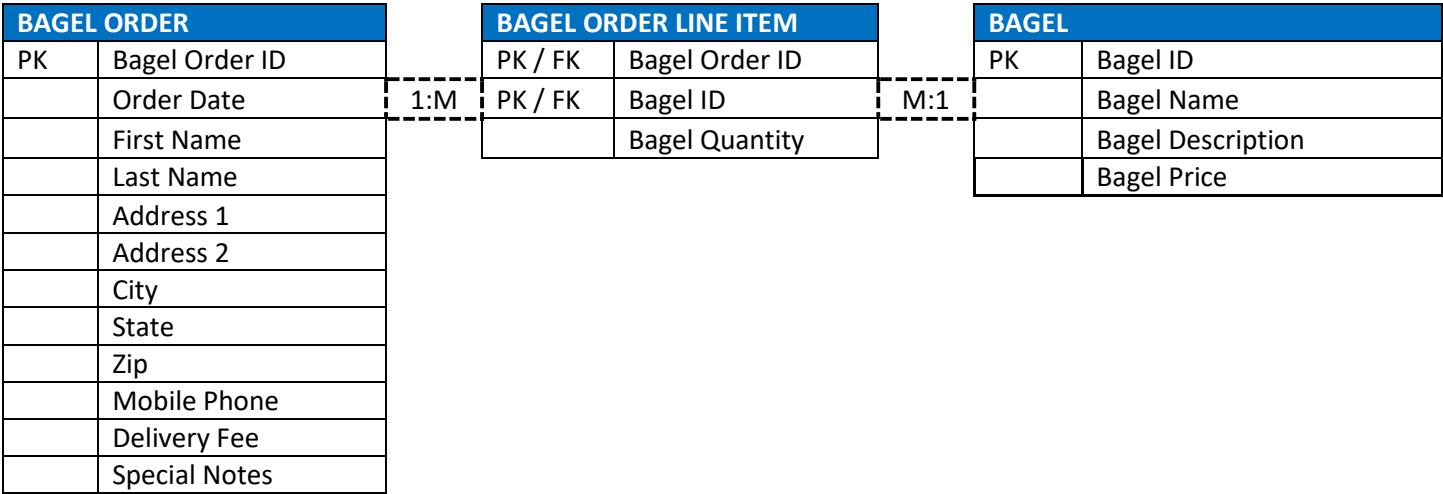
BAGEL ORDER	
PK	Bagel Order ID
PK	Bagel ID
	Order Date
	First Name
	Last Name
	Address 1
	Address 2
	City
	State
	Zip
	Mobile Phone
	Delivery Fee
	Bagel Name
	Bagel Description
	Bagel Price
	Bagel Quantity
	Special Notes

This 1NF table achieves the following:

- Captures all necessary data fields from the unnormalized “Nora’s Bagel Bin Catering Order” form.
- Excludes calculated fields like subtotal and sales tax as it is not necessary to store these values.
- Establishes primary keys.
- Does not contain any repeated groups (data that depends on both pieces of the composite primary key).
- Contains only atomic data (no attributes will contain more than one piece of data).

# Nora’s Bagel Bin Database Blueprints *(continued)*

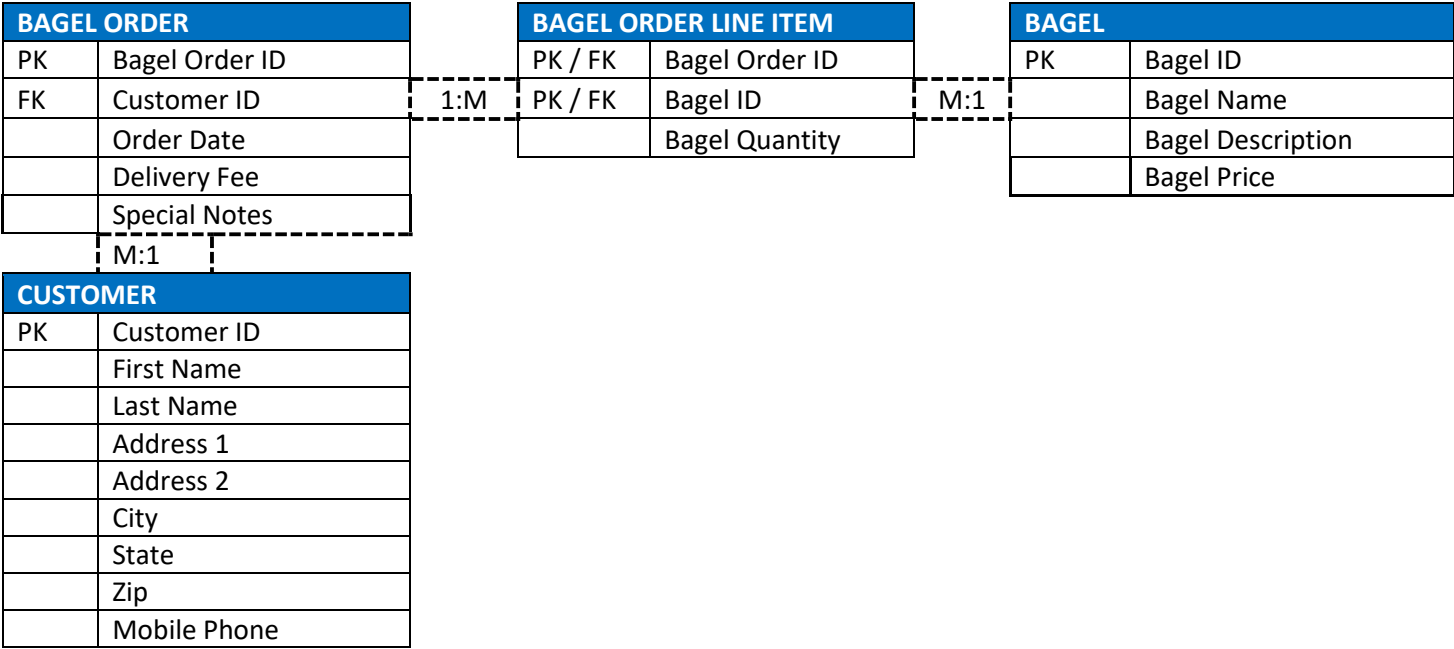
## Second Normal Form (2NF)



- Separate the data that depend on just one of the two parts of the primary key into separate tables.
- Keep any columns in the original table (now named "Bagel Order Line Item") that still depend on both parts of the original primary key.

# Nora’s Bagel Bin Database Blueprints *(continued)*

## Third Normal Form (3NF)



- Look for remaining data that are or could be repeated within each table but do not depend on the primary key.
- Move that repeated data into their own table.
- Create a new attribute to be the primary key for this new table and also use it as the foreign key linking to this new table.

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## Final Physical Database Model

