# 1NF

1. Every column /attribute need to have a single value
2. Each row should be unique. Either through a single or multiple columns. Not mandatory to have primary key.

# 2NF

1. Must be in 1NF
2. All non-key attributes must be fully dependent on candidate key

i.e if a non-key column is partially dependent on candidate key (subset of columns forming candidate key) then split them into separate tables.

1. Every table should have primary key and relationship between the tables should be formed using foreign key

Candidate key

1. Set of columns which uniquely identify a record.
2. A table can have multiple candidate keys because there can be multiple set of columns which uniquely identify a record/row in a table

Non-key columns

1. Columns which are not part of the candidate key or primary key.

Partial Dependency

1. If your candidate key is a combination of 2 columns (or multiple columns) then every non key column (columns which are not part of the candidate key) should be fully dependent on all the column
2. If there is any non-key column which depends only on one of the candidate key columns then this results in partial dependency