UNF to 1NF

Either Flatten table ( 1large table) Intersection of each row / column has 1 single value.

OR

1. ID Key,
2. Remove Repeating Data attributes and put into a new table along with copy of the Identifier attribute for the repeating Group.

1NF to 2NF

1. ID Key for table or for each table.
2. ID FD’s (Ensure only Non-trivial FD’s – ignore trivial FD’s)
3. If partial dependencies (PD) exist ( attributes dependant on a part/subset of key), then remove them along with a copy of the identifier attibute of the key and create a new table(s). PD’s arise when the key is composite.

2NF to 3NF

1. ID Key for table or for each table.
2. ID FD’s
3. If Transitive dependencies (TD) exist ( non-key atttibute dependant on another non-key attribute which in tun is dependant on the key), then remove them along with a copy of the identifier attibute of the key and create a new table(s).

3NF to BCNF

1. ID Key for each table.
2. ID FD’s
3. Check to ensure all determinats are candidate keys. If a determinant is not a candiate key take copy of determinant and remove the attibutes it determines into a new table.