

**Unnormalized form - separate attributes with ‘+’**

email + name + purchase\_id + order\_id + delivery\_address + title + author + barcode + cover + bayNumber + book\_image + amount + price + net + postage + total\_value

**1st normal form – Remove duplicate or derived fields**

email + name + purchase\_id + order\_id + delivery\_address + title + author + barcode + cover + bayNumber + book\_image + amount + price + postage

**2nd normal form – surround repeating groups with {}**

{email + name + delivery\_address } + {barcode + title + cover + author + bayNumber + book\_image + price } + { purchase\_id + order\_id + amount + postage}

**3rd normal form – identify one or more attributes for primary key, also foreign keys**

{email + name + delivery\_address } + {barcode + title + cover + author + bayNumber + book\_image + price } + { purchase\_id + order\_id + amount + postage + email\_FK + barcode\_FK}

<http://rdbms.opengrass.net/2_Database%20Design/2.2_Normalisation/2.2.3_UNF-Create%20Model%20Data.html>