**Database Normalization** is a technique of organizing the data in the database. Normalization is a systematic approach of decomposing tables to eliminate data redundancy(repetition) and undesirable characteristics like Insertion, Update and Deletion Anomalies:



^^ The above table is **NOT NORMALIZED**.

To **normalise** this table:





And use SQL to reconstruct information following the normalisation process:

|  |
| --- |
| SELECT \*FROM CUSTOMERS JOIN POSTAGE ON CUSTOMERS.cust\_id = POSTAGE.cust\_id |

Yields:



 User **TABLE**.**field** when JOINING tables, so that column names are not ambiguous:

|  |
| --- |
| SELECT CUSTOMERS.name, POSTAGE.itemFROM CUSTOMERS JOIN POSTAGE ON CUSTOMERS.cust\_id = POSTAGE.cust\_id |