

Graded Exercise

Question: Normalize Invoice Table

InvoiceID	Date	Branch	BranchLocation	City	CustomerType	CustomerName	Gender	Product	UnitPrice	Quantity
1101	2/5/2024	1,004,008	Quinpool,Windsor,Dartmouth	Halifax	Member,Normal	Alex,Rohan,Mark	Female,Male	Phone,Battery,Cover	200,50,25	1,2,5
2104	3/3/2024	3,007,008	Dowry Street, Abbey Lane, GlenView	Toronto	Member,Normal	Suzan,Carla,Andreq	Female,Male	Code,Power bank	10,35	20,45

1. Normalize Invoice table to **1NF**.
2. Normalize the 1NF tables to **2NF**.
3. Normalize 2NF tables to **3NF**.

At each normal form stage, present the resulting tables with their columns and dependencies.

4. Do you think it will be a good design decision to de-normalize the normal forms generated for the Product table in the above steps? Why/Why not? Provide a brief explanation.