

⇒ first normal form

- ⊗ Multivalued Attribute
- ⊗ Repeating group (بيانات متكررة) Related
- ⊗ composite attribute

⇒ second normal form

- ⊗ first normal form
- ⊗ partial Dependency

⇒ Third normal form

- ⊗ second normal form
- ⊗ Transitive Dependency
non-key attribute depends on a non-key
depends on the key.

My first Task :

□ User_table :

- ✓ 1NF: atomic fields + primary key exists
- ✓ 2NF: No composite key
- ✓ 3NF: No Transitive dependencies

2] Orders-table :

✓ 1NF , 2NF

✗ 3NF : total-amount appears to be derived from order-product

→ Remove (total-amount) and calculate dynamically.

3] product table

✓ 1NF , 2NF , 3NF →

user-id لا يعتمد على category-id
نفس الفئة يمكن استخدامها في مستخدمين.

4] category-table

✓ 1NF , 2NF , 3NF

5] order-product-table

✓ 1NF

✗ 2NF : unit price , subtotal depends on product-id (متعلق بكمية المنتج ككل)

✗ 3NF : 2NF ليس 3NF

6] Payment-table

✓ 1NF , 2NF , 3NF