# Normalization

**Manages Relation:**

**UNF:** (m\_id, m\_name, m\_phone, m\_address, m\_salary, e\_id, e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype)

**1NF:** (m\_id, m\_name, m\_phone, m\_address, m\_salary, e\_id, e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype)

**2NF:**

1. m\_id (PK), m\_name, m\_phone, m\_address, m\_salary
2. e\_id (PK), e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype, m\_id (FK)

**3NF:**

1. m\_id (PK), m\_name, m\_phone, m\_address, m\_salary
2. e\_id (PK), e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype, m\_id (FK)

**Assists Relation:**

**UNF:** ( e\_id, e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype, c\_id, c\_name, c\_address, c\_phone, c\_ email)

**1NF:** (e\_id, e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype, c\_id, c\_name, c\_address, c\_phone, c\_ email)

**2NF:**

1. e\_id (PK), e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype
2. c\_id (PK), c\_name, c\_address, c\_phone, c\_ email
3. e\_id (PK), c\_id (FK)

**3NF:**

1. e\_id (PK), e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype
2. c\_id (PK), c\_name, c\_address,c\_ phone, c\_ email
3. e\_id (PK), c\_id (FK)

**Buys Relation:**

**UNF:** (c\_id, c\_name, c\_address, c\_phone, c\_ email, car\_id, car\_name, car\_brand, car\_color, car\_price)

**1NF**: (c\_id, c\_name, c\_address, c\_phone, c\_ email, car\_id, car\_name, car\_brand, car\_color, car\_price)

**2NF:**

1. c\_id (PK), c\_name, c\_address,c\_ phone, c\_ email
2. car\_id (PK), car\_name, car\_brand, car\_color, car\_price
3. c\_id (PK), car\_id (FK)

**3NF:**

1. c\_id (PK), c\_name, c\_address,c\_ phone, c\_ email
2. car\_id (PK), car\_name, car\_brand, car\_color, car\_price
3. c\_id (PK), car\_id (FK)

**Pays Relation:**

**UNF:** (c\_id, c\_name, c\_address, c\_phone, c\_email, p\_id, p\_date, p\_type)

**1NF:** (c\_id, c\_name, c\_address, c\_phone, c\_email, p\_id, p\_date, p\_type)

**2NF:**

1. c\_id (PK), c\_name, c\_address,c\_ phone, c\_ email
2. p\_id (PK), p\_date, p\_type, c\_id(FK)

**3NF:**

1. c\_id (PK), c\_name, c\_address,c\_ phone, c\_ email
2. p\_id (PK), p\_date, p\_type, c\_id(FK)

**Finalization:**

1. m\_id (PK), m\_name, m\_phone, m\_address, m\_salary
2. e\_id (PK), e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype
3. e\_id (PK), e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype, m\_id (FK)
4. c\_id (PK), c\_name, c\_address, c\_phone, c\_ email
5. car\_id (PK), car\_name, car\_brand, car\_color, car\_price
6. p\_id (PK), p\_date, p\_type, c\_id (FK)
7. e\_id (PK), c\_id (FK)
8. c\_id (PK), car\_id (FK)

**Table Name**

* 1. **Manager Table:** (m\_id (PK), m\_name, m\_phone, m\_address, m\_salary)
  2. **Employee Table:** (e\_id (PK), e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype)
  3. **Customer Table:** (c\_id (PK), c\_name, c\_address, c\_phone, c\_ email)
  4. **Car Table:** (car\_id (PK), car\_name, car\_brand, car\_color, car\_price)
  5. **Manage Table:** (e\_id (PK), e\_name, e\_ phone, e\_address, e\_ salary, e\_ jobtype, m\_id (FK))
  6. **Assist Table:** (e\_id (PK), c\_id (FK))
  7. **Buy Table:** (c\_id (PK), car\_id (FK))
  8. **Pay Table:** (p\_id (PK), p\_date, p\_type, c\_id (FK))