

## NORMALIZATION (1NF → 3NF)

### 1. Account

1NF: All atomic attributes ✓

2NF: PK is single-column; all fields depend on PK ✓

3NF: No transitive dependencies ✓

### 2. Goal

1NF: All atomic ✓

2NF: PK is goal\_id; no partial dependencies ✓

3NF: All non-key fields depend only on PK ✓

### 3. HealthMetric

1NF: Atomic ✓

2NF: Single-column PK ✓

3NF: No transitive dependencies ✓

### 4. Room

1NF: Atomic ✓

2NF: PK = room\_id ✓

3NF: title → unique, no transitive dependencies ✓

### 5. Booking

1NF: All values atomic ✓

2NF: PK is booking\_id ✓

3NF: All non-key attributes depend ONLY on booking\_id ✓

### 6. Registration

1NF: Atomic ✓

2NF: PK = registration\_id (surrogate) ✓

3NF: No transitive dependencies ✓

Note: UNIQUE(account\_id, booking\_id) enforces M–M join correctness.