



## **NORMALISED TABLES/NORMALISATION:**

- **First Normal Form (1NF):**

All attribute values are atomic, no repeating groups exist.

- **Second Normal Form (2NF):**

Removed any partial dependencies; all attributes depend fully on primary keys.

- **Third Normal Form (3NF):**

Removed transitive dependencies; Approval details separated into a distinct table.

### **Tables after Normalization**

1. **Employee**(emp\_id **PK**, name, department, designation, email, phone, manager\_id **FK**)
2. **Manager**(manager\_id **PK**, **FK**→**Employee**, approval\_level)
3. **LeaveType**(leave\_type\_id **PK**, leave\_name, max\_days)
4. **LeaveApplication**(leave\_id **PK**, emp\_id **FK**, leave\_type\_id **FK**, start\_date, end\_date, status)
5. **Approval**(approval\_id **PK**, leave\_id **FK**, manager\_id **FK**, approval\_date, remark)