Assignment 4-2: Design Process

Nouns: software company, employees, software package, projects, construction companies, customers, state, offices, groups, software engineering team, consulting team, staff, administrators, managers, customer’s site, standard class, spreadsheets, database

Verbs: make, tracks, teaches, use, hold, bill, growing, scale

# Grouping (3NF)

## Employee-Related Tables

* Employees (1-to-Many – Transactions)
  + **EmployeeID (PK)**
  + FirstName
  + LastName
  + **AddressID (FK)**
  + **PhoneTypeID (FK)**
  + PhoneNumber
  + Email
  + OfficeBranch
  + DepartmentName
* EmployeeAddresses (1-to-Many – Employees)
  + **AddressID (PK)**
  + Street
  + City
  + State
  + Zip
* EmployeePhoneTypes (1-to-Many – Employees)
  + **PhoneTypeID (PK)**
  + PhoneType
    - Options: Home, Work, Cell

## Client-Related Tables

* Clients (1-to-Many – Transactions)
  + **ClientID (PK)**
  + FirstName
  + LastName
  + **AddressID (FK)**
  + **PhoneTypeID (FK)**
  + PhoneNumber
  + Email
  + CompanyName
* ClientAddresses (1-to-Many – Clients)
  + **AddressID (PK)**
  + Street
  + City
  + State
  + Zip
* ClientPhoneTypes (1-to-Many – Clients)
  + **PhoneTypeID (PK)**
  + PhoneType
    - Options: Home, Work, Cell

## Transactions-Related Tables

* Transactions
  + **TranscactionID (PK)**
  + **EmployeeID (FK)**
  + **ClientID (FK)**
  + TransactionDate
  + SoftwareVersion
  + TrainingType
    - Options: Online, Onsite
  + BillingType
    - Options: Standard Class, Hourly Based
  + TrainingHours
  + Price