**Homework #2**

Q.1: Consider the following “Employee” table which shows the data about the employees in a company with their dependents



1. Determine if this table violate the First Normal Form rule?
2. Apply the First and the second Normal rules to re-design this table into the proper form of entity relation. (*hint: create a new table for dependent)*

Q.2: Consider the following “Employee” table which shows the data about the employees in a company:



This table contains data that is de-normalized state and not optimized for Relational database. Apply the following normalization rules and show you work step by step

1. **First Normal Form (1NF): (hint:** Breakdown EmployeeName)
2. **Second Normal Form (2NF)**
   1. Department, Country, and Region are not dependent on each employee. Multiple employees can belong to these entities.
   2. Create new entities for department, Country, Region, and location