**DBMS Innovative Assignment**

**Project Title**: Normalization Simulation Tool

**Definition**: Normalization

**Motivation**: This Biggest Problem we face in DBMS is of Redundancy. To solve this problem, we use the concept of Normalization,

So, we have designed a Tool that help students learn FD’s, normal forms, and normalization. It can also be used to test your table for normal forms, Find Candidate Keys and to Find Closure using a given set of functional dependencies.

**Features:**

* Canonical Cover (Minimal Cover)
* Closure
* Candidate Keys
* Check Normal Form

**Approximate Plan:**

Steps will follow for coding:

1. Find Canonical Cover for the given FD’s.
2. Find Closures of all Attributes in our table/relation.
3. Find all Candidate Keys
4. Check For Normalization

For backend calculations we will be coding in Python. If we have enough time then we will make GUI (Frontend) using Web Technologies.

Or else we will show all functionalities in Terminal.