**DBDS DataBase Design Specialists, Inc.**

“We are always 5NF”

**AAA Rentals**

**Memo: # 5**

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**April 21, 2018**

**Logical Data Model A screenshot of a social media post

Description generated with very high confidence**

**Physical Data Model**

**A screenshot of a social media post

Description generated with very high confidence**

A screenshot of a social media post

Description generated with very high confidenceLDM in memo#3

**Procedure followed to get current design:**

* According to new sample data given by Design Team leader, I done FD analysis on sample data to get functional dependencies.
* I added necessary code tables to make data base more informative.
* By analyzing those functional dependencies, I came through problems with “Null” in {personID,RepairNum,AppartmentID}, where this FD describes about repair done by person in particular apartment.
* Where if we don’t know the personID, we will get Null’s in above relation which leads to violation of foreign key constraints.
* So, I came with better implementation by keeping apartmentID in Repair table, and sub categorizing the RepairNum and PersonID.
* This will solve the problem of unknow repair done at apartment.
* The same problem occurred when dealing with personID->ComplexID, To keep ComplexID in Staff table, we will get some constraint problems like, Bob is owner. he will get all complexID’s. which is violation of 1st normal form. So, I subcategorized PersonID and ComplexID. Which will solve this problem and satisfies the condition of managers and repairers.
* I choose proper and appropriate field sizes to save memory.