

TEAM GMV

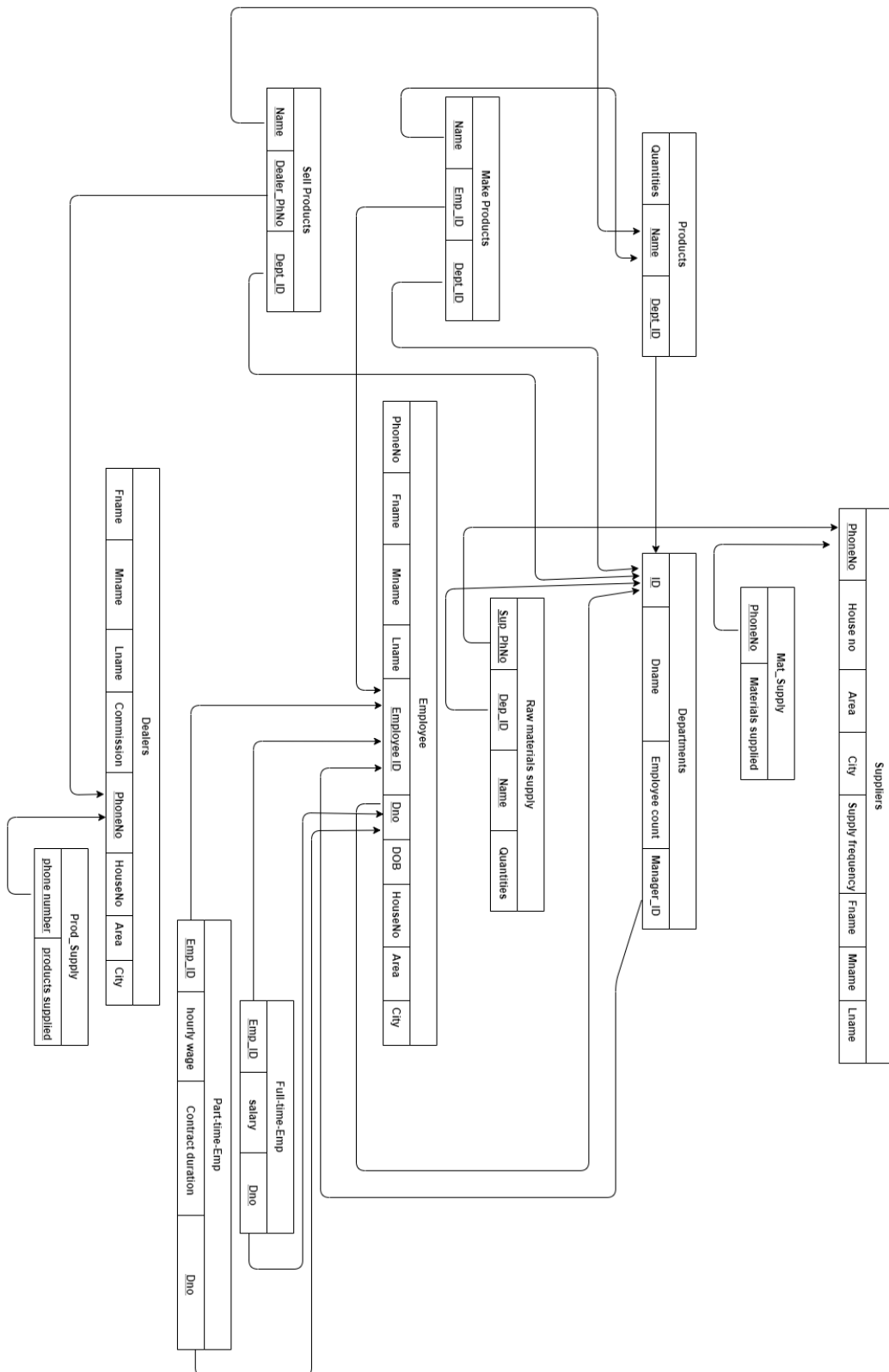
Project Phase 3

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The Relational Model we made is attached below:



We made some changes while making our RM from our ER. These changes made sure that there was no redundancy. The changes were that, attribute "Aadhar no." was removed from "employee" entity type and attribute "Dno" was also made a primary key for this entity type.

The conditions for 1NF are:

1. It should only have single(atomic) valued attributes/columns.
2. Values stored in a column should be of the same domain
3. All the columns in a table should have unique names.
4. And the order in which data is stored, does not matter.

The current RM has only atomic attributes, unique attribute names and the values in one attribute follow one domain. Hence, we can see that this RM qualifies to be in 1NF.

The conditions for 2NF are:

1. Should satisfy 1NF
2. Should not have partial dependency

It can also be seen that no table has partial dependency. Hence, this RM also satisfies 2NF.

The conditions for 3NF are:

1. Should satisfy 2NF
2. Should not have transitive dependency

No non-prime attribute depends on another non-prime attribute in any table. This is an indication that transitive dependency does not exist. This RM also satisfies the conditions for 3NF.

In conclusion, our RM turned out to be in 3NF directly.