## **DA PROJECT PHASE-3**

{Submitted by team "Noobies" and members are Harshit Sharma(2019101083), Priyansh Gupta(2019101080) and Kartik Gara(2019101060)}

## **CHANGES:**

- 1. We added a new attribute i.e. "ID" to the WORKS\_ON relationship between factory and consignment.
- 2. We converted "owner" atrribute of factory into a relationship between factory and person.

## NORMAL FORMS:

- Well if we simply make relational-model according to our ER diagram then it will be already in third normal form , as :-
- 1. all columns contain atomic value, have data of same datatype, have unique column names,
- 2. there is no particular order in which rows need to be inserted,
- 3. there are no atrributes which are dependent on partial key atrributes,
- 4. there are no key attributes which are derivable from non-key attribute.
- So the only improvement that we can bring in our relational-model is removal of NULL values from EMPLOYEE tuples. This can be done by splitting EMPLOYEE relation into two relations in which one is for employee working in some shop and the other one is for employee working in some factory.

Note: the first image on next page corresponds to the model without making any changes. And the second image is the one where we made changes in EMPLOYEE relation to remove null values from tuples.



