1. RELATIONAL ALGEBRA

model.p.id = inventory.p-id

- OTP\_id, quantity (Oorder. order\_id = In inventory. quantity = 0 (Orders M Model to Inventory))
  orders model = Model = Model (Fortheta join)
- @ Tp-id, cost ( Model= SD70Ace' (Part M part.p-id= Model)
- (ST Model. model (Ocurrent < 0.1. overall Model & Inventory)

  Overall model G count (p-id) as overall Model

  Current (p-id) as overall Model

## III NORMACIZATION

O -> look for the attributes that cannot be determined because then they should be present in the candidate keys ctrivial)

$$A^{+}=A$$
 $B^{+}=A,B,C,F$ 
 $C^{+}=C,P,B$ 
 $F^{+}=F,E$ 

→ see if other attributes are required to find the set of candidate keys

→ find closure of BDE

→ chech attributes that can be determined from this set

\[
\text{Violation in BCNE: F → E is not trivial} \]
 \[
\text{F + E dues not have superkey on LHS of Functional dependency}
\]

NOT in BCNF

-> split Rinto RI=EF & RZ=ABCDF

> restrictions of RIERZ by F

Fl: F> 5 FZ: B > C, C > ABDF

RI (E, F)

RZ(ABCDF)