Noormalizing paralogy using foundational Dependency

Aim: 10 normalize the employee data base up BDENF we decompose the Schema wing fundi onal dependencies to Elimate Redundacy.

Initial Relatival Schema

Employee (Employee, to, name, pept, Job-ditte manager, Lo, Hine, Dada Salary)

Functinal Dependency

\* Employee - ID - rame, pept, Job-Little; monager -lo, wiore-data, Salary)

\* Department - manager ID

\* Monager - 2D -> Name.

Step by step normalization

IDP ( First normal born)

- -no repeating groups (81) aways in schema.
- aloncady in INCP 2 DP esecond Mormal form)
- Remove, parial dependencies.
- However, POIR FPS Scigget

dependencies nont on primary key. De compositions -> Employee (Employee-ID, name, nept-ID Job Little , hiore - pate Salary) -) Department opept ID, morages - ID, name) INP (thiord normal formal) -) Eliminate ofensitivic dependency is D-manager & Ctonsilie via) Department - manager - 2D updated lables Employee Employees, ID, rame, Deposit ment - ID, Job-Little, Hive Date, Salvey Department (pept-2p, manager-2p) roanger (manager - 20 incime) DENR -) every determinate myt be a condidate key - all tremaining PPS Were determinate that core condidates keys. \* Employe-Ip \* Ocparlment - 20 \* Momager - ID.

Pind OCHR

Employee (Employee - ID, Name, pept 3p)

Jobtitte, hime duta Salvoy)

Department (pept-80, monager-80); manager-80, Name.

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EX NO.	80
PERFORMANCE (5)	5
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(20)	45
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OFD

Reject! Theory, the dodatage was normalized to BCNP by decomposing It into employey depart \* manager tables based on Functional dependence