Jak 8: Normalgudg database using Remeternal dependencies uplo BCNF:

To implement the remalization database upon relational database usealed in last 2. pospor nonalization up to BINF con guin olyxindeness as following is americal relations specyced below 1. Roberty Imployee attributes Employee - IP, Name. department, Job-Telle, Booter sid, Here Date: 2. Défine relational excluena: patient Mateent-ID, Name, Repartment, Hedreine ID. Dates ID. J. s. Determine Suntitional idependences (FOS) between attributes: patient ID > Name, Depardment, solary_ID, porter Do - Depar ment 5 Doctor -ID - Docta-ID -> Neme stepe: convert into INF 1. Elemenate superate groups et arroys 2. execute superate tables to Each repeating group. Este 3: Convert in 2NF 1. hours each non-key attettette depends on the 2. Move non-key vallaboles to separate table of they depend on only part of plunary key. contine promary key. - create religaroment table: Department (Dept_IP, Docto_IP) estep4; Lonvert to 3NP 1. Ensure there are no deanstitue odependentes 2. Move non-key attailbutes its apprate table of they depend on conother non key attachetes. uxeater Doctor table: Doctor (Doctor_ID, Name) - réposite reléparament toble : Déparament (réportment-IP, Docta-ID). sdeps: Convert ito BCNF 1. Ensure every cleterminet is a condictate that
2. check for overly candidate they.
3. Decompose relations to Eliminate redunding using Gayfith Tool schema and hundtonal dependence.

2. Griffth tool generates a dependency groph

2. Griffth tool graph to identify manualization

8. Analyze issues nomalization vieles to transforms the surer the resulting when meets BCNF Griffith Tool steps: 1. Create a pour project en Grégoth. 2. Dyone the gelational schema and FDS. 2. Rose the "Dependency Graph" tool.

Analyc ithe graph for namedycation comes.

Apply transformations resting the Namalycard.

in really BENF compliance wing the "BENF check".

Animalycal schema.

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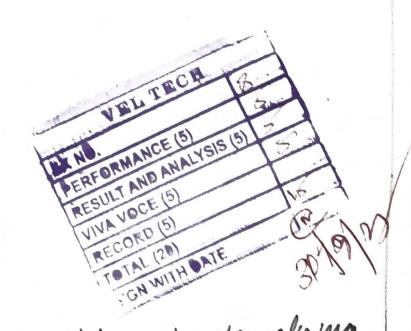
Patient (patient = ID, Name, Medicine - Name, Radichus

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I papadment (Department = ID, Ocator ID):

2. Papadment (Department - ID, Name).

3. Ocator (poeta - ID, Name).



Result: Thus the implementation of Namalying dotation wising functional dependences up to BONF has been hunted successfully.