10 ks: Normaliting Clarabase wing functional dependencias Aim: To priore normaliting database wing functional dependent up to BCNF Détermine Possible feunctional Dépendencis(FDS) Cost 2 ID - D Court - Name 1 Cost - Phone Noilwet-City, BIII - ID - D Parice court - ID phone_ID -> Model- Name Admin ID > Parkword Convert toINF Alredy in INF All att vibutes hause atomic Single value; there are no stepeating groups Convert to 2NF Check for Partial dependencies they occur only;f theires a composite key. Since all tables have singl advibutes primary kuys Coust-IP, B:11-ID, Phone-ID, Admin-ID) Convert to3NF 1) Ensure there are no Eransitive dependencies 2) Move non-ky attributes to seperate tables if they depend on another key. Cost-ID > cust-Name, Cust-Phone NO cust-city, cust-Amount Pald Convert to BCDF DEnsure every determinant is a candidle ky 2) Check for overlapping candidate 1 cups 3) Decompose relations to eliminate redundancy no fut ther de composition needed.

using Girittith tool

Daput relational Schema and funttional dependencies D'ariffith total generates a dependency graph.

3) Analy 2 e the graph to identify normalization

W Apply normalitation rules to transform the Schema.

5) verify the resulting schema meets BCN F Eriteria

Griffith Tool steps

Doreate a new project in Griffith

2) Define the relational Schema and FD's

3) Analyze the graph fix normalization issues

4) Apply towns formation using the "No indization" too 5) Verify BCNF complience using "BCNF check'to

Normalited Schema:

Customer (Cost-ID PK, Cust-Novere, Cust-Phonene, cost-city, cost- Amount Paid)

BILL BILL ID BRADOUC (CM+-ID EK7 (OSTONOW-COSTID) MOBILE CPhone_ID. PK, Model-Name, Model paire LOGIN CAdmin-ID PK 1 Pous Gord).

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Thus to prove normalizing database wing Functional dependencies apto BCNF are traffied ruccessfully