Aim! To prove nonmotizing detabase using functional dependent

Delermine Possible Functional Dependencies (FDs)

Cust_ID-> Cust-Name, Cust_Phone Mo, Cust-city, Cust-Analord

Bill - FD -> Price, Cust_ID

Phone_ID -> Model_Name

Admin_ID -> Possosod

Convert to INF:

Already in INF

All attributes have atomic single values;

there are no repeating groups

Convert to 211==

Check for partial dependencies - they occur only if there's a composite key.

Since all-tables have single ofhibutes primary keys Cut_ID, Bill_ID, Phone_ID, Admn_ID),

Convert to SNF?

1. Ensure there one no transitive dependencies

2. More non-key attributes to seperate tables if they depend on another key.

Coust_ID -> Coust_Nome; Coust_Phone No Coustib, Coust - Amount Paid.

Convert to BCNF.

1. Ensure every determinant is a condidete key

2. Check for overlapping condidle keys

J. Decompose relations to eliminate redundancy
- No trather decomposition needed

Using Graitfith Tool 1. Input relational schema and functional dependencies 2. Gniffith tool generates a dependency graph. 3. Analyze the graph to identify normalization issues 4. Apply normalization rules to transform the schema 5. Vority the resulting schema meets Bent conterior 1. Create a new project in Griffith. 2. Define the adational schema and FDs. 3. Run the Dependency Garaph Tool. 1. Analyze the graph for normalization issues. 5. Apply transformation using the Mormalize tool. 6. Verify BONF compliance wing BONF check too Mormalized Schema: Customer (Cust_ID Ph, Cust_Mame, Cust_PhoneMo, Cust_city, Cust_ AmountPoid) Bill (Bill_TP PK, Price, Cust_ID FK -> Customer- Cust_ID) MOBILE (Phone_ID Ph, Model-Name, ModelPrice) LOGIN (Admin-1D Ph, Password) VEL TECH ERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5)

Thus to prove normalizing database usual

dependencies upto BCNF are wanted successfly