onte: 30/0915
TASK8 - Normalizing dutabase using functional dependencies
upto BCNF (Tool: Guttable normalization Tool, ALM: Tigsaw).

Aim: To perform mormalization upto Bonf based on given dependencies

mobile phone dotabase:

1. identify mobile phone attributes: phone-po, mobile-name, mobile-price, vate.

2. Define relations schema: mobile (phone - ID, mobile name, mobile - auta, mobile + price)

3. Determine functional dependencies (FDS) between attributes.

4 mobile - nome, phone-ID mobile-price mobile - pabe.

step 2: convert to INF

\* No repeating groups or anothers

\* All attributes are atomic.

\* The xhema, in got

step3: conevert to 2NF

FAII primony keys are single-column keys, so nopartial dependence

output ": The schema, is already in zNF.

Stepu: convert to 3NF

Estimate Transitive dependencies

(9) product - ID > cotesous > > category - Nome

7 move category-name to generate categories valid table

Apphone \_ ID + Uses + Uses Dotails

1) No redundance as only use - ID is store in phones

Alltransitive dependencies removed

steps: convert to BONF check if every determinant is arandidate per. Quer. For their respective tables. & Foreign ten like categoony - ID, Uses - ID, ex. . . do not via one one ACNE orules. Alfos empty with ECNF no purther decomposition needed, using griffitch Tool: 1. Input velational schema. - one functional dependencies 9. Aviffitch toolo generates adependencies groups. 3. Arolyze the graph to identify normalization issues 4. Poisempt's with BCNF no Furthan, decrementio decomposition needed. 5. venifishe resulting sithema, meets BCNF cuctenia, Griffitch Toolstops: I create a new puoiect in fireffitch 2. cretate the relationed schemas and FO. 3. Run the 'dependency araph' tool. 4 Analyze the guaph for normalization issues 5. Apply fransformations using the pormalization fool, 6. veuity BCNF compare using the och check. tool. Normalized schange users (user-ID, name, Email, Address, contengouies, (category Is, no me of the costegory)

mobile (phore-ID, Name, category price)
mobile setails (phone ID, avantity, price payment-ID, Totalamount #)

VEL TECH	
EX NO.	8
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	4
VIVA VOCE (5)	)
RECORD (5)	4
TOTAL (20)	
- LUTH DATE	14
	1

Result: Thus the implementation of normalizing one lapta base upto Bent based on given dependices was execute.

Successors successfully