Ainit To perform normalization up to BCNF based on given dependencies.

e tormeur Database!

- 1. Identify Mobile phone attributes: phone-10, mobile-varge, mobile-price, pare.
- 2: Define relational 3chema! Mobile (potrone-10, mobile : warne, mobile\_pate, mobile\_pate, mobile\_price, product\_10
- 3. Determine functional dependencies (FDS) letuceen cuttibutes:
  - mobile vouve product -10 mobile price

Step 2 - convert to INF.

\* NO repeating groups or always. & All ributes one about

The Schemer thronk.

Paeps: . convert to 2017.

\* All primary begs are single-column keys, so no paltial dependence emish + However i we ensure foreign-bey attributes cue managed, wherety output! The ochema of already in 2008.

1tepu! - Convert to 3NF.

Elimate Transitive Dependencies.

\*·product-10 -3 real egory-10-3 Category-Name

-) Move category-norme to a seperate Categories. Udoil e table.

9 Usel-10-1 Namae, Eneail, Address, plones

- A) ready inspect wes terble.

\* Other -100 =) We -) wer Desoils.

7 700 redundans, as only wer-10. is stored in or phones.

All fransstive dependencies removal.

Grep: 5 convert to BCNF

Check il every determinant is a candidate

9 Osce 10, procleut\_ID, payment-10, publel-Dame, oue all unique

beys for their respective tables.

et...do not violate BCNF rules

All Fo's engity with Bent no feether decomposition needed.

## Osing willith Too!

- 1. Input relaboral Schema and functional dependencies.
- 2. Unitet the tool generates a dependency eyroph.
- 3. Analyse the graph to identify.

normalization issues

- 4. Apply normalization rules to transform. The Schema.
  - t. Verity the resulting schema moets sout criteria.

Ciriffith 1001 Steps:

1. Create a new project in Criphth. 2-Define the relational Schema and fris

3. Run the 11 peperdency (praph) 11/201 4. Analazethe graph for normalization 18 wes.

r-Apply transformations using the "normali-2ation" tool.

6. verity Berst compline wing the 4 Berst Check Al tool

Normalized Scherna.

Osees · ( rese -10, Name, Email, Address)

Categories ( Category 10 1 wame of the

Product:
Nobile ( Nohone 10, Warme waregory
-P) Price.)

Hobile Details + phone-101. Quality, page Payment\_10, Total\_amount)

VEL TECH	
EX NO.	
PERFORMANCE (5)	7
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	3
RECORD (5)	1/2
TOTAL (20)	113
SIGN WITH DATE	100
	10/0
	30 414

Result: Thus, the implementation of hormalizing the doctative up to Bink based on given dependencies was executed successfully.