Task-8 :- Normalizing databases using fundamental defendens

Aim :- To normalize the employee database up BCNf we decompose the schema using functional decomposises.

Initial relation schema :-

employee (employee ID, Name, Department Job-Title, manager-ID, Date, salary.

functional dependences :-

* employee - ID → Name, Department, Job-title manager - ID, Data salary
* Department → manager-ID
* manager - ID → Name

step by step Normalization

1NF (first Normal formal)

- Remain Partial dependences
- However, for key DD, guest dependancies not on.

primary key.

Decomposations

→ employee (employee-ID, Name, Department ID, Job-Tittle, Hire-datate, Salony.

- department (Department-ID, manager ID Name

3NF (Third Normal form)

- Name (transitive via)

  - Department → manager - ID

updated

employee (employee - ID, name, department - ID,
job - Title, date salary)

department (department - ID, manager - ID)

manager (manage - ID, name)

BCNF :-

- every determine must be a candidate key
- All remaining fds have determinate that are candidate key.

  * employee - ID
  * department - ID
  * manager - ID

No decomposition is needed.

final BCNF

employee (employee - ID, job - Title, hire, data

VEL TECH - CSE	
PERFORMANCE (5)	05
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
SIGN WITH DATE	

2. Result :- Thus, the data base was normalized to BCNF by decomposing manager table functional dependencies.