

NORMALIZATION PROOFS

ALL IN BCNF FORM

People (Key: Aadhar No.)

Aadhar No → F_Name

Aadhar No → M_Name

Aadhar No → L_Name

Aadhar No → DOB

Aadhar No → Gender

Transfer (Key: Pid ,Date)

{Pid,Date} → Old station_ID

{Pid,Date} → New station_ID

Shifts (Key: Pid , Date)

Pid,date → Morning

Pid,date → Evening

All_Case

Case_ID

Open_since

Filed_By

Warrant (Key: Warrant No)

Warrant No → PID

Warrant No → Offence

Warrant No → valid till

Warrant No → Against_Aadahr

Police Personnel (Key1: Aadhar No, Key2: PID)

Aadhar No → Police_ID

Aadhar No → Station_ID

Aadhar No → Rank

Police_ID → Aadhar No.

Police_ID → Station_ID

Police_ID → Rank

Police Station(Key1: Station_ID)

Station_ID → Station_Incharge

Station_ID → Pincode

Vehicle (Key: Regis_No)

Registration No → SID

Registration No → Model

Registration No → Purchase_Year

Evidence

NO FD (since all attributes form composite key)

Solved Cases(Key: Criminal_Aadhar No)

Criminal_Aadhar No,CID → No of crimes

CID , Criminal_Aadhar_No → Verdict

Case Details

CID → Closing_Date

Criminal Details
Criminal_Aadhar No→Alias

Suspects (Key: Aadhar No.)
Aadhar No→Alias
Aadhar No→CID

Witness (Key: Aadhar No.)
Aadhar No→Date
Aadhar No→CID

Inventory (Key: SID, Name of item)
SID, Name_of_item→Quantity

Workings
NO FD (since all attributes form composite