Dhirubhai Ambani
Institute of Information and Communication Technology

Faculty: P M Jatt
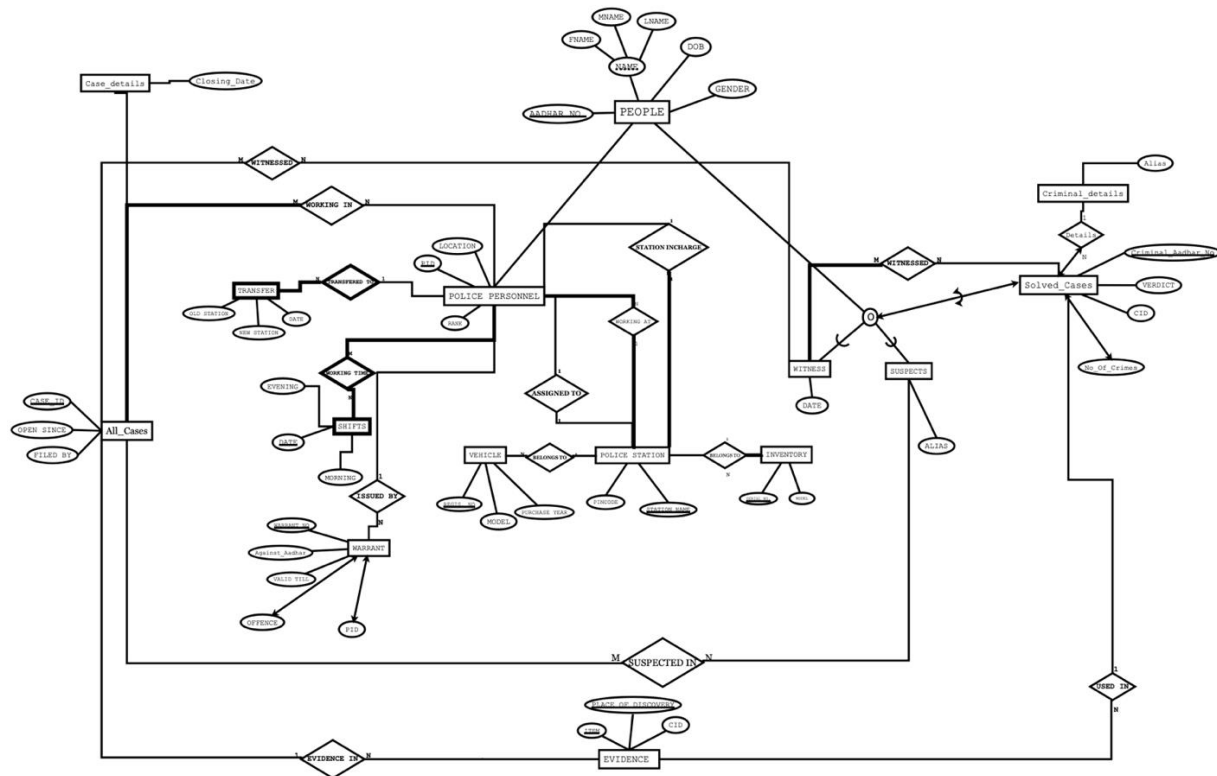
DBMS: IT214

Legal Guardian Database

Group ID T-515

MEMBERS:

i. Kunj Bhuva- 202201275
ii. Sakshi Shah- 202201281
iii. Mausam Kamdar- 202201372
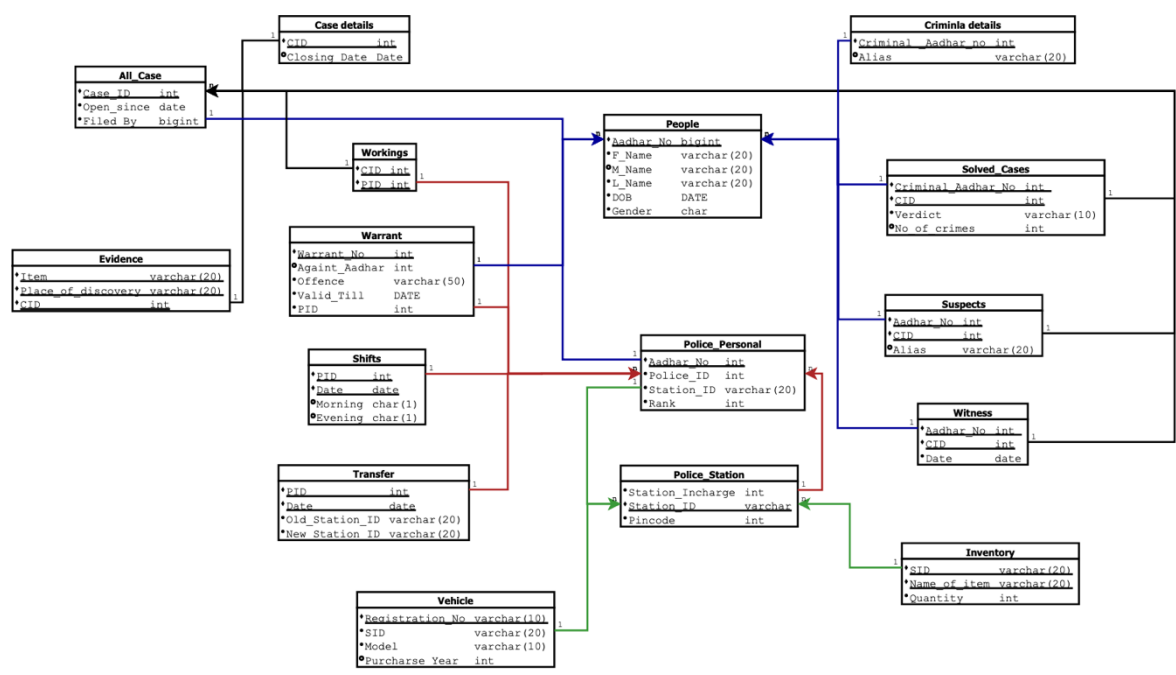iv. Ayush Pandita- 202201256
v. Vivek Chaudhari- 202201294

GROUP REPRESENTATIVE:

Ayush Pandita- 202201256
Ph no. 6005742216

ER DIAGRAM

RELATIONAL SCHEMA

Case details
- CID   int
- Closing Date   Date

All_Case
- Case_ID   int
- Open_since   date
- Filed By   bigint

Workings
- CID int
- PID int

Evidence
- Item   varchar(20)
- Place_of_discovery varchar(20)
- CID   int

Warrant
- Warrant_No   int
- Againt_Aadhar int
- Offence   varchar(50)
- Valid_Till   DATE
- PID   int

Shifts
- PID   int
- Date   date
- Morning char(1)
- Evening char(1)

Transfer
- PID   int
- Date   date
- Old_Station_ID varchar(20)
- New Station ID varchar(20)

Vehicle
- Registration_No varchar(10)
- SID   varchar(20)
- Model   varchar(10)
- Purcharse Year   int

People
- Aadhar_No bigint
- F_Name   varchar(20)
- M_Name   varchar(20)
- L_Name   varchar(20)
- DOB   DATE
- Gender   char

Police_Personal
- Aadhar_No   int
- Police_ID   int
- Station_ID varchar(20)
- Rank   int

Police_Station
- Station_Incharge int
- Station_ID   varchar
- Pincode   int

Criminla details
- Criminal _Aadhar no int
- Alias   varchar(20)

Solved_Cases
- Criminal_Aadhar_No int
- CID   int
- Verdict   varchar(10)
- No of crimes   int

Suspects
- Aadhar_No int
- CID   int
- Alias   varchar(20)

Witness
- Aadhar_No int
- CID   int
- Date   date

Inventory
- SID   varchar(20)
- Name_of_item varchar(20)
- Quantity   int

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