

Functional Dependencies Set

Aadhar_Info:

Aadhar_Number -> First_Name , Last_Name , DOB , Gender

Normal Form: BCNF

For every FD $A \rightarrow B$ that holds on relation Aadhar_info, A i.e. Aadhar_Number is its key.

Case_Info:

Case_Id -> Time_of_Accident, Cause_ID, Region_ID.

Normal Form: BCNF

For every FD $A \rightarrow B$ that holds on relation Case_Info, A i.e. Case_Id is its key.

Cause:

Cause_ID -> Cause_Type, Cause_Description.

Normal Form: BCNF

For every FD $A \rightarrow B$ that holds on relation Cause, A i.e. Cause_ID is its key.

Region:

Region_ID -> Pincode, Localities

Normal Form: BCNF

For every FD $A \rightarrow B$ that holds on relation Region, A i.e. Region_ID is its key.

Vehicle_Info:

car_plate_number -> Vehicle_Type, Model_ID.

Normal Form: BCNF

For every FD $A \rightarrow B$ that holds on relation Vehicle_Info, A i.e. car_plate_number is its key.

Model:

Model_ID -> Company, Model_Name , Fuel_Type , Weight.

Normal Form: BCNF

For every FD $A \rightarrow B$ that holds on relation Model, A i.e. Model_ID is its key.

Safety_Features:

Candidate Key – {Model_id, Safety_Features}

Normal Form: BCNF

Since, there are no FDs in this relation.

Victim:

Aadhar_number, Case_ID -> car_plate_number , Victim_Category , Life_Status.

Normal Form: BCNF

For every FD $A \rightarrow B$ that holds on relation Victim, A i.e. Aadhar_number, Case_ID is its key.