# 5.0 LOGICAL DATABASE DESIGN

Offence:

* Code: int (4) (range from 1 to 9999)
* Offence: varchar (30)
* Points: int (2) (range from 1 to 99)

Motorist:

* Driver License number: int (14) (range from 1 to 99999999999999)
* Last name: char (24)
* First name: char (24)
* Middle name: char (24)
* Gender: char (7)
* Date of Birth: date
* Address: varchar (40)
* County: varchar (10)

Tickets:

* Ticket number: varchar (10)
* Driver license number: int (14) (range from 1 to 99999999999999)
* Type of offence: varchar (30)
* Issue Date: date and time
* Payment Dead line: date and time

Committed:

* Committed Id: varchar (4) (range from 1 to 9999)
* Ticket number: varchar (10) (range from 1 to 9999999999)
* Driver license number: int (14) (range from 1 to 99999999999999)
* Code: int (4) (range from 1 to 9999)
* Issue Date: date and time
* Payment Dead line: date and time
* Points: int (2) (range from 1 to 99)

Police:

* Police ID: varchar (13)
* Name: varchar (30)
* Rank: varchar(20)
* Mobile: int (7) (range 1 to 9999999)
* Email: varchar (30)

Court:

* Court id: int (5) (range 1 to 99999)
* Court name: varchar(20)
* Address: varchar(40)
* Court date: date and time
* Judge name: varchar(30)
* Client name: varchar(30)

To:

* To id: int (2) (range 1 to 99)
* Type of offence: varchar(30)
* Ticket num: int(14)
* DLN: int(14) (range 1 to 99999999999999)
* Issue date: date and time

Has:

* Has id: int (2) (range 1 to 99)
* Issue date: date and time
* Code: int(4) (range 1 to 9999)
* Driver license number: int(14) (range 1 to 999999999999999)
* Ticket number: varchar (14)

Go to:

* Code ID: int (4) (range 1 to 9999)
* Go to ID: int (3) (range 1 to 999)
* Driver License Number: int(14) (range 1 to 99999999999999)
* Court date: date and time
* Client name: varchar(40)

Give:

* Issue date: date and time
* Payment date: date and time
* Ticket number: varchar (14)
* Police ID: varchar (13)
* Give ID: int (3) (range 1 to 999)

Is documented by:

* Documented id : int (4) (range from 1 to 9999)
* Code int (4) (range 1 to 9999)
* Police id: varchar (13)
* Documentation: text

**Source Code**

Create database Guyana\_police\_force

Create table Offence(

Code int,

Offence varchar (30),

Points int,

Primary key(Code)

)

Create table Motorist(

DriverLicensenumber int,

Lastname char(24),

Firstname char(24),

Middlename char(24),

Gender char(15),

DateofBirth date,

Address varchar(40),

County varchar(10),

Primary key(DriverLicensenumber)

)

Create table Tickets (

Ticketnumber varchar(14),

DriverLicensenumber int,

Issuedate date,

PaymentDeadline date,

Primary key(Ticketnumber)

)

Create table Commited(

cid int,

Ticketnumber varchar(14),

DriverLisensenumber int,

Code int,

Issuedate date,

PaymentDeadline date,

Points int,

Primary key (cid)

)

Create table Police(

Police\_ID varchar(13),

Name varchar(30),

Rank varchar (20)

Mobile int,

Email varchar (30),

Primary Key(Police\_ID)

Create Table Court(

Court\_ID int,

Court\_name varchar (20),

Address varchar (40),

Court\_date datetime,

Judge\_name varchar (30)

Client\_name (30),

Primary Key(Court\_ID)

create table To(

To\_ID int ,

Type\_of\_offence varchar(30),

Ticket\_num int (14),

DLN int ,

Issue\_date datetime

Primary Key(To\_ID)

create table Has(

Has\_ID int,

Issue\_date datetime,

Code int,

Driver\_license\_number int ,

Ticket\_number varcher(14),

Primary Key(Has\_ID)

create table Go\_to(

Code\_ID int,

Go\_to\_ID int,

Driver\_License\_Number int,

Court\_date datetime,

Client\_name varchar(30),

Primary Key(Code\_ID)

create table Give(

Issie\_date datettime,

Patment\_date datetime,

Ticket\_number varchar(14),

Police\_ID,

Give\_ID int,

create table Is\_doccumented\_by(

Doccumented\_id int,

Code\_ID int,

Police\_id varchar (13),

Documentation text,

Primary Key(Doccumented\_id)