SQL C OMMANDS

* All the sql commands required to build our model are written here. First execute these statements in your database command line prompt to use our System.

**TO CREATE TABLES:**

1. PERSON TABLE

Create Table Person (

Aadhar\_Number BIGINT CONSTRAINT TWELVE\_DIGITS CHECK (Aadhar\_Number >=100000000000 and Aadhar\_Number <=999999999999 ) ,

First\_Name VARCHAR (20) ,

Last\_Name VARCHAR (20) ,

Age INT CONSTRAINT THREE\_DIGITS\_MAX CHECK (AGE >=0 and Age <=150 ) ,

Gender VARCHAR(9) CONSTRAINT MF CHECK( Gender in (“Male”, “Female” , “others”) ) ,

Address\_Line\_1 VARCHAR(100) ,

City VARCHAR(30) ,

State VARCHAR(30) ,

PinCode INT CONSTRAINT SIX\_DIGITS CHECK (PinCode >=100000 and PinCode <=999999 ) ,

CONSTRAINT PERSON\_PK PRIMARY KEY (Aadhar\_Number)

) ;

1. CONTACT DETAILS :

Create Table Contact\_Details (

Aadhar\_Number BIGINT CONSTRAINT cd\_TWELVE\_DIGITS CHECK (Aadhar\_Number >=100000000000 and Aadhar\_Number <=999999999999 ) ,

Phone\_Number BIGINT CONSTRAINT cd\_Ten\_DIGITS CHECK (Phone\_Number >=1000000000 and Phone\_Number <=9999999999 ) ,

CONSTRAINT Contact\_Details\_PK PRIMARY KEY (Aadhar\_Number)

) ;

1. Foreign Visit Info :

Create Table Foreign\_Visit\_Info (

Aadhar\_Number BIGINT CONSTRAINT fvi\_TWELVE\_DIGITS CHECK (Aadhar\_Number >=100000000000 and Aadhar\_Number <=999999999999 ) ,

Country VARCHAR (20) ,

Date\_Visit Date,

Current\_Status VARCHAR (30) ,

CONSTRAINT Foreign\_Visit\_Info\_PK PRIMARY KEY (Aadhar\_Number)

) ;

1. Hospital :

Create Table Hospital (

Hospital\_ID VARCHAR(5) ,

Name VARCHAR(20) ,

City VARCHAR(20) ,

State VARCHAR(20) ,

Pincode VARCHAR(6),

CONSTRAINT Hospital\_PK PRIMARY KEY (Hospital\_ID)

) ;

1. Patient :

Create Table Patient (

Aadhar\_Number BIGINT CONSTRAINT patient\_TWELVE\_DIGITS CHECK (Aadhar\_Number >=100000000000 and Aadhar\_Number <=999999999999 ) ,

Patient\_ID VARCHAR(5),

Hospital\_ID VARCHAR(5),

Date\_Admit Date ,

Date\_Discharge Date ,

Testing\_Status VARCHAR(50),

Doctor\_ID VARCHAR(5) ,

CONSTRAINT Patient\_PK PRIMARY KEY (Patient\_ID)

) ;

1. Doctor :

Create Table Doctor (

Doctor\_ID VARCHAR(5) ,

Name VARCHAR(20) ,

Hospital\_ID VARCHAR(5),

CONSTRAINT Doctor\_PK PRIMARY KEY (Doctor\_ID),

) ;

1. Team :

Create Table Team (

Team\_ID VARCHAR(5) ,

Head\_Name VARCHAR(20) ,

City VARCHAR(20),

State VARCHAR(20),

CONSTRAINT Team\_PK PRIMARY KEY (Team\_ID) ) ;

1. Govt\_Quarantined :

Create Table Govt\_Quarantined(

Aadhar\_Number BIGINT CONSTRAINT patient\_TWELVE\_DIGITS CHECK (Aadhar\_Number >=100000000000 and Aadhar\_Number <=999999999999 ) ,

Start\_Date DATE,

STATUS Varchar(10 ) CONSTRAINT status\_constraint check (STATUS in (‘none’ , ‘positive’ ,’negative’)),

CONSTRAINT Govt\_Quarantined\_pk PRIMARY KEY (Aadhar\_Number)

) ;

1. Home\_Quarantined :

Create Table Home\_Quarantined(

Aadhar\_Number BIGINT CONSTRAINT Home\_Quarnatine\_12 CHECK (Aadhar\_Number >=100000000000 and Aadhar\_Number <=999999999999 ) ,

Start\_Date DATE,

Person\_Contacted BIGINT CONSTRAINT Home\_Quarantined\_12 CHECK (Person\_Contacted >=100000000000 and Person\_Contacted <=999999999999 ) ,

CONSTRAINT Home\_Quarantined\_pk PRIMARY KEY (Aadhar\_Number)

) ;

1. Govt\_Quarantine\_Buffer:

Create Table Govt\_Quarantine\_Buffer (

Aadhar\_Number BIGINT CONSTRAINT buffer12 CHECK (Aadhar\_Number >=100000000000 and Aadhar\_Number <=999999999999 ) ,

CONSTRAINT Govt\_Quarantine\_buffer\_pk PRIMARY KEY (Aadhar\_Number)

) ;

1. Patient\_Buffer :

Create Table Patient\_Buffer (

Aadhar\_Number BIGINT CONSTRAINT Pbuffer12 CHECK (Aadhar\_Number >=100000000000 and Aadhar\_Number <=999999999999 ) ,

Hospital\_ID VARCHAR(5),

CONSTRAINT Govt\_Quarantine\_buffer\_pk PRIMARY KEY (Aadhar\_Number)

) ;

12 . Team\_Hospital:

Create Table Team\_Hospital (

Hospital\_ID VARCHAR(5),

Team\_ID VARCHAR(5),

CONSTRAINT team\_hospital\_pk PRIMARY KEY (hospital\_id , team\_id)

) ;

**TRIGGER**

1. For foreign\_visit\_to govt\_quarantine buffer

delimiter //

CREATE TRIGGER foreign\_visit\_to\_buffer

AFTER INSERT

On foreign\_visit\_info

FOR EACH ROW

BEGIN

INSERT INTO govt\_quarantine\_buffer values(NEW.aadhar\_number);

END ;

//

DELIMITER ;

1. To add persons into govt\_quarantine\_buffer contacted with corona positive person

delimiter //

CREATE TRIGGER add\_contacted\_people

AFTER UPDATE

ON govt\_quarantined

FOR EACH ROW

BEGIN

if NEW.STATUS = 'positive'

THEN

INSERT INTO govt\_quarantine\_buffer select aadhar\_number from home\_quarantined where Person\_Contacted = new.aadhar\_number ;

END IF;

END ;//

DELIMITER ;