Relational Database Schema

1.CREATE TABLE Employee

(Emp\_id INTEGER (6) NOT NULL,

First\_Name VARCHAR (50) NOT NULL,

Last\_Name VARCHAR (50) NOT NULL,

Mobile\_Number INTEGER NOT NULL,

Hire\_date Date NOT NULL

email\_address VARCHAR (50) NOT NULL,

SupervisorId INTEGER (6) NOT NULL,

Department\_id INTEGER NOT NULL,

Street Road VARCHAR (50) NOT NULL,

Apartment\_no VARCHAR (50) NOT NULL,

City VARCHAR (40) NOT NULL,

State CHAR (2) NOT NULL,

ZipCode (11) INTEGER NOT NULL,

Store\_id INTEGER NOT NULL,

Employee\_Rank VARCHAR (50) NOT NULL

CONSTRAINT PKEmp\_id PRIMARY KEY (Emp\_id),

CONSTRAINT FK Department\_id PRIMARY KEY (Department\_id) REFERENCES DEPARTMENT ON UPDATE CASCADE,

CONSTRAINT FK Store\_id PRIMARY KEY (Store\_id) REFERENCES STORE ON UPDATE CASCADE)

-- Constraint for supervisor id

2. CREATE TABLE Department

(Department\_id INTEGER NOT NULL,

Department\_Name VARCHAR (50) NOT NULL,

CONSTRAINT PKDepartment\_id PRIMARY KEY (Department\_id))

3. CREATE TABLE Customer

(Customer\_id INTEGER NOT NULL,

Customer\_Name VARCHAR (50) NOT NULL,

Customer\_Status VARCHAR (1) NOT NULL,

First\_Name VARCHAR (50) NOT NULL,

Last\_Name VARCHAR (50) NOT NULL,

Mobile\_Number INTEGER NOT NULL,

Email\_address VARCHAR (50) NOT NULL,

Street\_Road VARCHAR (50) NOT NULL,

Apartment\_no VARCHAR (50) NOT NULL,

City VARCHAR (50) NOT NULL,

State VARCHAR (50) NOT NULL,

ZipCode (11) INTEGER NOT NULL,

CONSTRAINT PKCustomer\_id PRIMARY KEY (Customer\_id))

4. CREATE TABLE Product

(Product\_id INTEGER NOT NULL,

Product\_Name VARCHAR (50) NOT NULL,

Cost\_Price DECIMAL (10, 2) NOT NULL,

Selling\_Price DECIMAL (10, 2) NOT NULL,

Product\_Code INTEGER NOT NULL,

Subcategory VARCHAR (50) NOT NULL

CONSTRAINT PKProduct\_id PRIMARY KEY (Product\_id)).

5. CREATE TABLE Order

(Order\_id INTEGER NOT NULL,

Customer\_id INTEGER NOT NULL,

Product\_id INTEGER NOT NULL,

Selling\_Price DECIMAL (10, 2) NOT NULL,

Quantity INTEGER NOT NULL,

Order\_Date Date NOT NULL,

Store\_id INTEGER NOT NULL,

Employee\_id INTEGER NOT NULL,

CONSTRAINT PKOrder\_id PRIMARY KEY (Order\_id),

CONSTRAINT FK Customer\_id PRIMARY KEY (Customer\_id) REFERENCES Customer ON UPDATE CASCADE,

CONSTRAINT FK Store\_id PRIMARY KEY (Store\_id) REFERENCES Store ON UPDATE CASCADE

CONSTRAINT FK Employee\_id PRIMARY KEY (Employee\_id) REFERENCES Employee ON UPDATE CASCADE

).

6. CREATE TABLE Sale

(Sale\_id INTEGER NOT NULL,

Store\_id INTEGER NOT NULL,

Sale\_date Date NOT NULL

Order\_id INTEGER NOT NULL,

CONSTRAINT PKSale\_id PRIMARY KEY (Sale\_id),

CONSTRAINT FK Store\_id PRIMARY KEY (Store\_id) REFERENCES Store ON UPDATE CASCADE,

CONSTRAINT FK Order\_id PRIMARY KEY (Order\_id) REFERENCES Order ON UPDATE CASCADE).

7. CREATE TABLE Inventory

(Store\_id INTEGER NOT NULL,

Quantity INTEGER NOT NULL,

Product\_id INTEGER NOT NULL,

CONSTRAINT PK Store\_id PRIMARY KEY (Store\_id),

CONSTRAINT FK Product\_id PRIMARY KEY (Product\_id ) REFERENCES Product ON UPDATE CASCADE).

8. CREATE TABLE Cart

(Customer\_id INTEGER NOT NULL,

Product\_id INTEGER NOT NULL,

Status VARCHAR(1) NOT NULL,

CONSTRAINT PK Customer \_id PRIMARY KEY (Customer\_id),

CONSTRAINT FK Product\_id PRIMARY KEY (Product\_id ) REFERENCES Product ON UPDATE CASCADE).

9. CREATE TABLE Store

(Store\_id INTEGER (6) NOT NULL,

Phone\_Number INTEGER NOT NULL,

Email\_address VARCHAR (50) NOT NULL,

Street Road VARCHAR (50) NOT NULL,

Apartment\_no VARCHAR (50) NOT NULL,

City VARCHAR (40) NOT NULL,

State CHAR (2) NOT NULL,

ZipCode (11) INTEGER NOT NULL,

Num\_Employee INTEGER NOT NULL,

CONSTRAINT PK Store\_id PRIMARY KEY (Store\_id))