THE WORKING DOCUMENT

## Process

1. The ER Diagram

<https://erdplus.com>

# CREATE STATEMENTS

CREATE TABLE User

(

User\_First\_Name VARCHAR(10) NOT NULL,

User\_Middle\_Name VARCHAR(10),

User\_Last\_Name VARCHAR(10) NOT NULL,

User\_Email\_Id VARCHAR(100) NOT NULL,

User\_Phone\_No INTEGER NOT NULL,

User\_Password VARCHAR(50) NOT NULL,

PRIMARY KEY (User\_Email\_Id),

UNIQUE (User\_Phone\_No)

);

CREATE TABLE Restaurant

(

Restaurant\_Name VARCHAR(100) NOT NULL,

Restaurant\_Cost\_Range DECIMAL(10,2) NOT NULL,

Restaurant\_FSSAI\_No INTEGER NOT NULL,

Restaurant\_Location VARCHAR(100) NOT NULL,

Restaurant\_Rating INTEGER NOT NULL,

Restaurant\_Password VARCHAR(100) NOT NULL,

Restaurant\_Website VARCHAR(100) NOT NULL,

PRIMARY KEY (Restaurant\_FSSAI\_No),

UNIQUE (Restaurant\_Website)

CHECK (Restaurant\_Cost\_Range > 0),

CHECK (Restaurant\_Rating >= 0 AND Restaurant\_Rating <= 5)

);

CREATE TABLE Item

(

Item\_Id INTEGER NOT NULL,

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

Item\_Name VARCHAR(50) NOT NULL,

PRIMARY KEY (Item\_Id),

CHECK (Item\_Price > 0)

);

CREATE TABLE Agents

(

Agent\_Vehicle\_No VARCHAR(11) NOT NULL,

Agent\_Phone\_No INTEGER NOT NULL,

Agent\_First\_Name VARCHAR(10) NOT NULL,

Agent\_Middle\_Name VARCHAR(10),

Agent\_Last\_Name VARCHAR(10) NOT NULL,

PRIMARY KEY (Agent\_Vehicle\_No),

UNIQUE (Agent\_Phone\_No)

);

CREATE TABLE Agents\_Areas

(

Agent\_Area VARCHAR(100) NOT NULL,

Agent\_Vehicle\_No VARCHAR(11) NOT NULL,

PRIMARY KEY (Agent\_Area, Agent\_Vehicle\_No),

FOREIGN KEY (Agent\_Vehicle\_No) REFERENCES Agents(Agent\_Vehicle\_No)

);

CREATE TABLE Caters

(

Restaurant\_FSSAI\_No INTEGER NOT NULL,

Item\_Id INTEGER NOT NULL,

PRIMARY KEY (Restaurant\_FSSAI\_No, Item\_Id),

FOREIGN KEY (Restaurant\_FSSAI\_No) REFERENCES Restaurant(Restaurant\_FSSAI\_No),

FOREIGN KEY (Item\_Id) REFERENCES Item(Item\_Id)

);

CREATE TABLE Prefers

(

User\_Email\_Id VARCHAR(100) NOT NULL,

Item\_Id INTEGER NOT NULL,

PRIMARY KEY (User\_Email\_Id, Item\_Id),

FOREIGN KEY (User\_Email\_Id) REFERENCES User(User\_Email\_Id),

FOREIGN KEY (Item\_Id) REFERENCES Item(Item\_Id)

);

CREATE TABLE Order

(

Order\_No INTEGER NOT NULL,

User\_Email\_Id VARCHAR(100) NOT NULL,

Restaurant\_FSSAI\_No INTEGER NOT NULL,

PRIMARY KEY (Order\_No),

FOREIGN KEY (User\_Email\_Id) REFERENCES User(User\_Email\_Id),

FOREIGN KEY (Restaurant\_FSSAI\_No) REFERENCES Restaurant(Restaurant\_FSSAI\_No)

);

CREATE TABLE User\_Address

(

House\_No INTEGER NOT NULL,

Street\_No VARCHAR(20) NOT NULL,

Area\_Name VARCHAR(50) NOT NULL,

User\_Email\_Id VARCHAR(100) NOT NULL,

PRIMARY KEY (House\_No, Street\_No, Area\_Name, User\_Email\_Id),

FOREIGN KEY (User\_Email\_Id) REFERENCES User(User\_Email\_Id)

);

CREATE TABLE Ordered\_Items

(

Order\_No INTEGER NOT NULL,

Item\_Id INTEGER NOT NULL,

PRIMARY KEY (Order\_No, Item\_Id),

FOREIGN KEY (Order\_No) REFERENCES Order(Order\_No),

FOREIGN KEY (Item\_Id) REFERENCES Item(Item\_Id)

);

CREATE TABLE Delivery

(

Restaurant\_Area VARCHAR(100) NOT NULL,

Delivery\_Id INTEGER NOT NULL,

User\_Area VARCHAR(100) NOT NULL,

Agent\_Vehicle\_No VARCHAR(11) NOT NULL,

Order\_No INTEGER NOT NULL,

PRIMARY KEY (Delivery\_Id),

FOREIGN KEY (Agent\_Vehicle\_No) REFERENCES Agents(Agent\_Vehicle\_No),

FOREIGN KEY (Order\_No) REFERENCES Order(Order\_No)

);

CREATE TABLE Payment

(

Payment\_Id INTEGER NOT NULL,

Mode\_of\_Payment VARCHAR(10) NOT NULL,

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

Order\_No INTEGER NOT NULL,

PRIMARY KEY (Payment\_Id),

FOREIGN KEY (Order\_No) REFERENCES Order(Order\_No),

CHECK (Total\_Price > 0)

);

# INSERT STATEMENTS