Mapping The ER Diagram To Relational Model

- CREATE TABLE **Employee** (Emp_no INTEGER, Full_Name CHAR(30), Address CHAR(30), DOB DATE, Date_Of_Joining DATE, SSN INTEGER, Phone_No INTEGER, PRIMARY KEY (Emp_no), FOREIGN KEY (R_ADDRESS) REFERENCES RESTAURANT (R_ADDRESS))
- CREATE TABLE **Restaurant** (R_Address CHAR(30), No_Of_Tables INTEGER, PRIMARY KEY (R_Address), FOREIGN KEY (S_No) REFERENCES Terminal (S_No), FOREIGN KEY (Brand) REFERENCES Terminal (Brand), FOREIGN KEY (Model) REFERENCES Terminal (Model))
- CREATE TABLE **Tables** (Table_No INTEGER, State CHAR(10), No_Of_Chairs (INTEGER), PRIMARY KEY (Table_No), FOREIGN KEY (R_Address) REFERENCES Restaurant(R_Address), FOREIGN KEY (Arrival_Time) REFERENCES Reservation(Confirmation_Number) ON UPDATE SET STATE=Open, ON DELETE SET STATE =Free)
- CREATE TABLE **Terminal** (S_No INTEGER, Brand CHAR(10), Model CHAR(10), Date_Of_First_Use DATE, Last_Invoice_Number INTEGER, Mode_Of_Payment CHAR(10), Amount_Of_Cash REAL)
- CREATE TABLE **Cashier** (Password CHAR(10), FOREIGN KEY (Emp_No) REFERENCES Employee (Emp_No))
- CREATE TABLE **Kitchen** (Designation CHAR(10), FOREIGN KEY (Emp_No) REFERENCES Employee (Emp_No))
- CREATE TABLE **Waiter** (No_Of_Assigned_Tables INTEGER,FOREIGN KEY (Emp_No) REFERENCES Tables (Emp_No), FOREIGN KEY (Manager_Emp_No) REFERENCES Employee (Emp_No))
- CREATE TABLE **Operates** (Emp_No INTEGER, Brand CHAR(20), Model CHAR(20), Amount_Of_Cash REAL, FOREIGN KEY(Emp_No) REFERENCES Cashier(Emp_No), FOREIGN KEY(Brand) REFERENCES Terminal(Brand), FOREIGN KEY (Model) REFERENCES Terminal (Model), FOREIGN KEY (Amount_of_Cash) REFERENCES Terminal ON DELETE SET NULL)

- CREATE TABLE **Invoice** (Invoice_No INTEGER, Date DATE, Time TIME, Discount INTEGER, Tax INTEGER, Mode_Of_Payment CHAR(10), PRIMARY KEY(Invoice_No), FOREIGN KEY (Table_No) REFERENCES Tables(Table_No), FOREIGN KEY (Emp_No) REFERENCES Employee(Emp_No), FOREGN KEY(Brand REFERENCES Operates(Brand),FOREIGN KEY(Mode_Of_Payment) REFERENCES OPERATES(Mode_Of_Payment))
- CREATE TABLE **Reservation** (Conformation_No INTEGER, Arrival_Time CHAR(10), Date DATE, Reserved_Time CAHR(10))
- CREATE TABLE **Customer** (Name CHAR(20), Mobile_No INTEGER)
- CREATE TABLE **Associated_With**(Table_No INTEGER, Mobile_No INTEGER, Confirmation_No INTEGER, FOREIGN KEY(Table_No) REFERENCES Table (Table_No),FOREIGN KEY(Mobile_No) REFERENCES Customer(Mobile_No),FOREIGN KEY(Conformation_No) REFERENCES Reservation (Conformation_No))
- CREATE TABLE **Menu** (Item_No INTEGER, Price REAL, Description CHAR(40), FOREIGN KEY (Invoice_No) REFERENCES Invoice (Invoice_No))
- CREATE TABLE **Ordered_Items**(No_of_items INTEGER, Invoice_No INTEGER, Item_No INTEGER, FOREIGN KEY (Invoice_No) REFERENCES Invoice(Invoice_No),FOREIGN KEY(Item_No) REFERENCES Menu(Item_No))