# DBMS MINI-PROJECT RESTAURANT MANAGEMENT SYSTEM

(MIS NO's. 111903135, 111903137)

#### **Problem Statement:**

Creating a database management system for a restaurant to manage customers, employees, orders and food items.

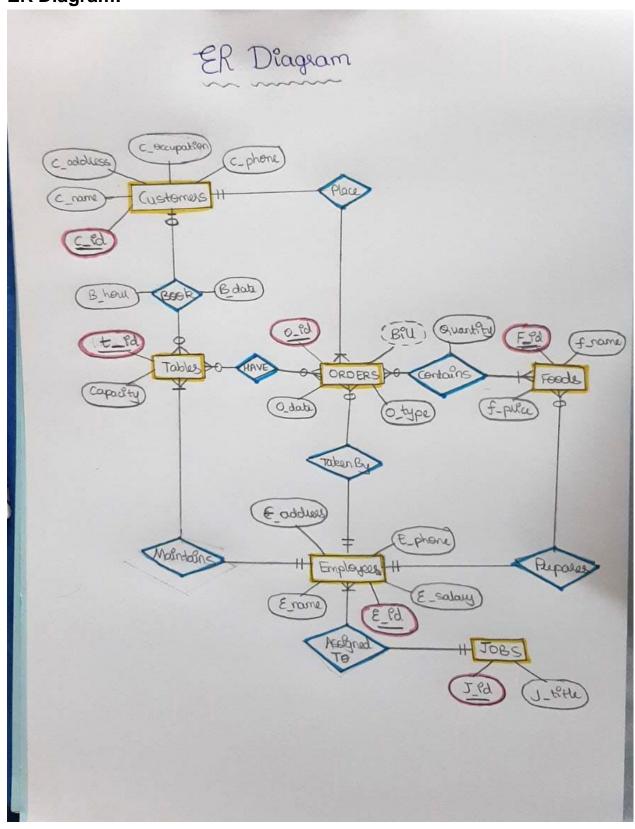
#### **Objectives:**

- The database would contain data about the customers and employees as well as food items and order details.
- This restaurant management database can monitor the employees of the restaurant to ensure proper management of the restaurant.
- To enhance efficiency to be able to manage the restaurant in a better manner.

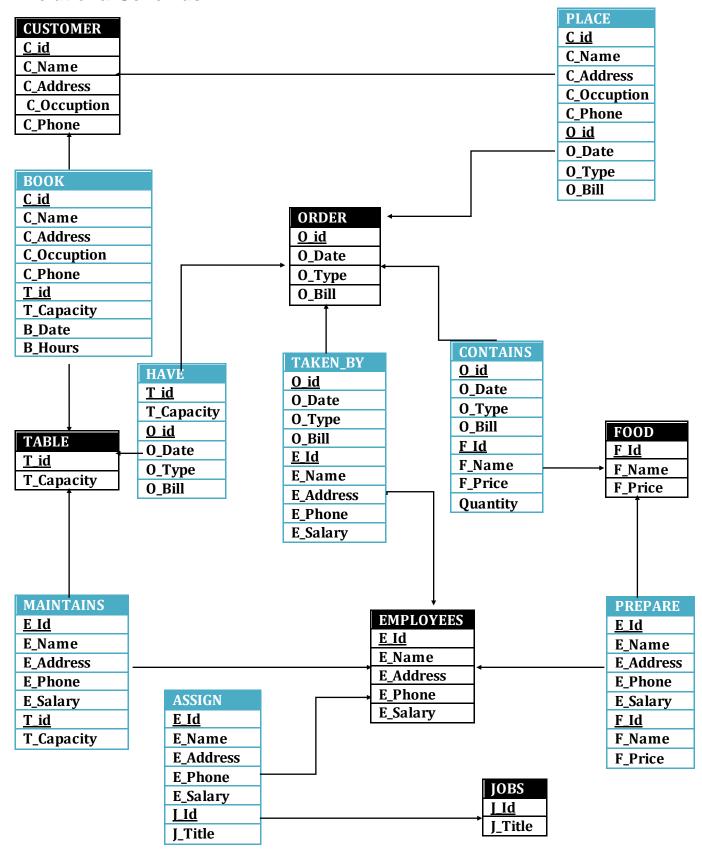
#### **Functional Requirements:**

- ❖ The system is able to see bookings or orders of a restaurant.
- To find out all employees and monitor their activity.
- ❖ To be able to identify best selling and least selling food items.

# **ER Diagram:**



#### **Relational Schemas:**



# **Functional Dependencies:**

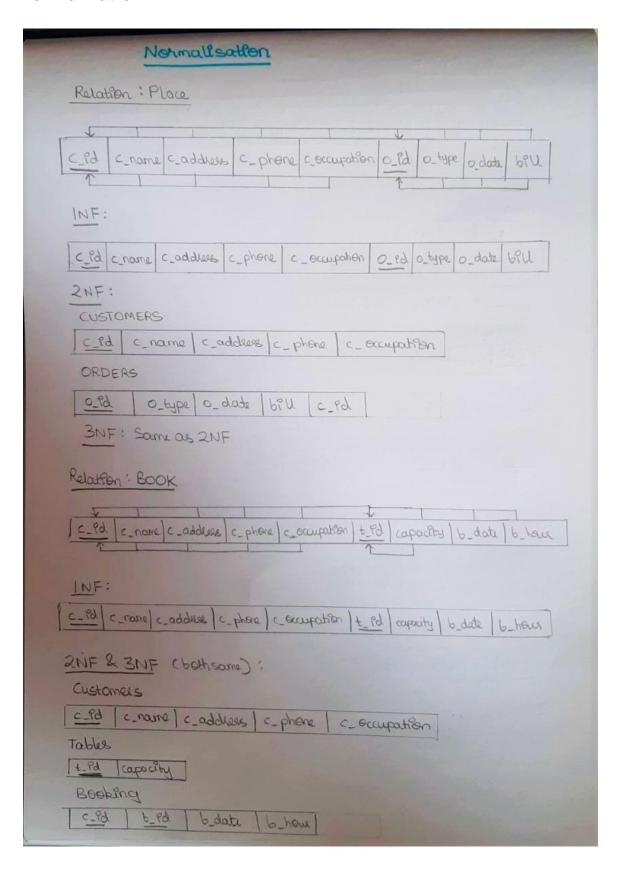
```
(CUSTOMER)c_id -> (CUSTOMER) c_name, c_address, c_phone, c_occupation
(tables)t_id -> (tables) t_id, capacity, e_id

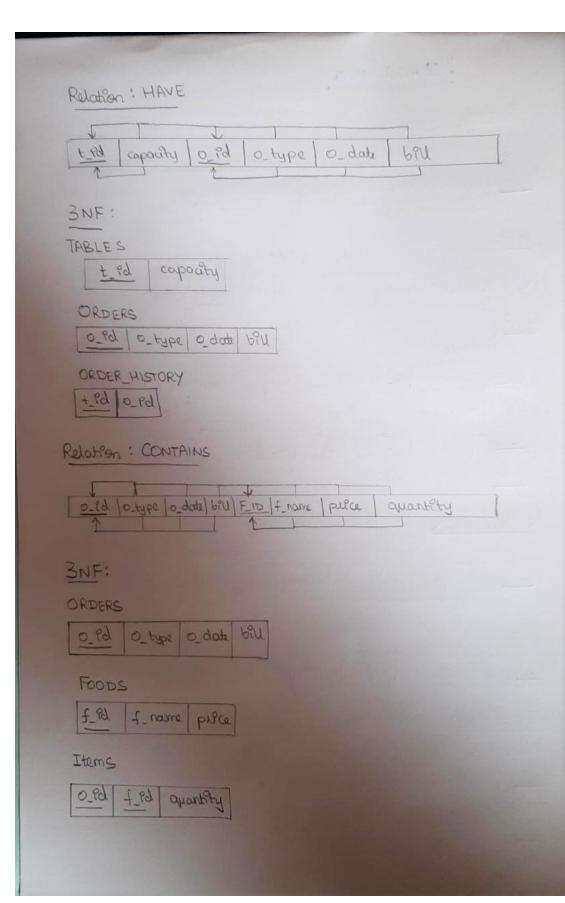
(Orders) o_id -> (Orders)o_date, o_type

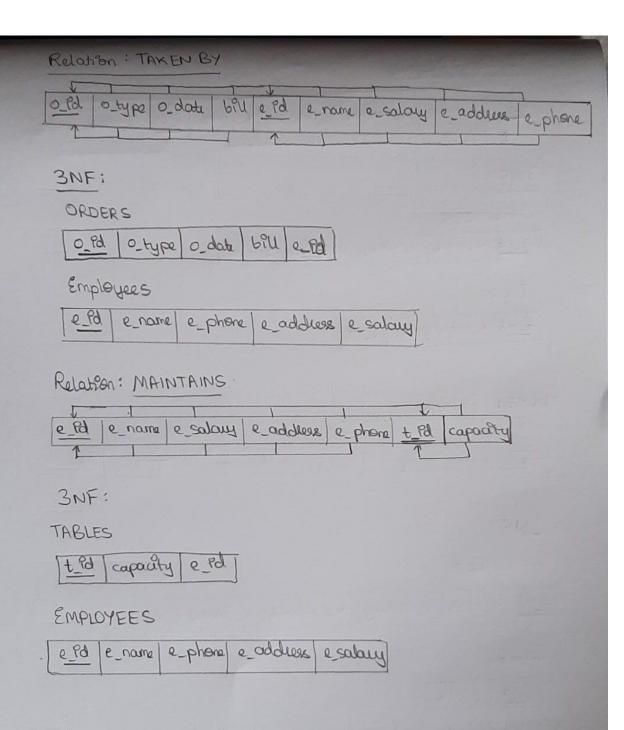
(Foods) f_id -> (Foods)f_name, f_price

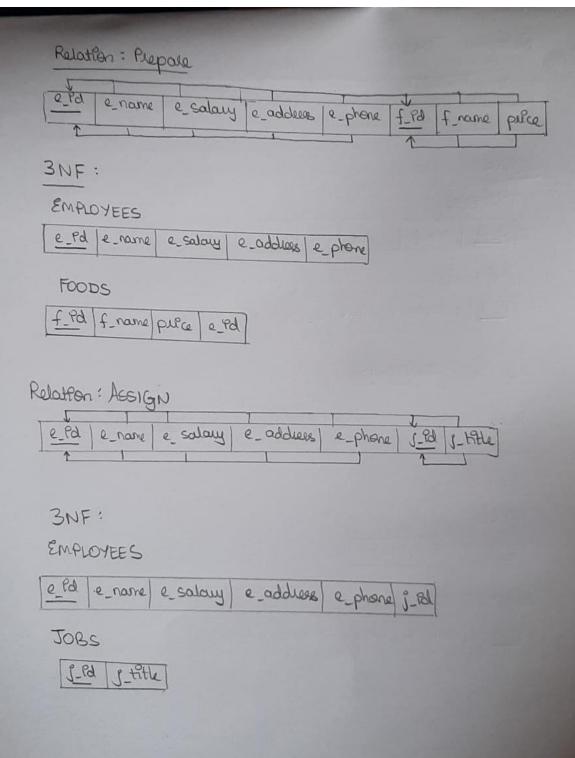
(Employees) e_id -> (Employees)e_name, e_address, e_salary, e_phone
```

#### **Normalization:**









# Normalized Tables (up to 3NF)

1	Г	F	١/	2
		_	IVI	

O_id	F_id	quantity
		'

## **ORDERS**

O_id	O_type	O_date	bill	C_id	E_id
------	--------	--------	------	------	------

# ORDER\_HISTORY

T_id	O_id

#### **JOBS**

J_id	J_title

#### **EMPLOYEES**

	E_id	E_name	E_phone	e_address	E_salary	J_id
--	------	--------	---------	-----------	----------	------

#### **FOODS**

F_id F_name price E_id
------------------------

#### **TABLES**

T_id	capacity	E_id
------	----------	------

## **BOOKING**

C_id	T id	B date	B hour
<u> </u>			

## **CUSTOMERS**

C_id C_name	C_address	C_phone	C_occupation
-------------	-----------	---------	--------------

## **Functional Dependencies:**

```
(CUSTOMER)c_id -> (CUSTOMER) c_name, c_address, c_phone, c_occupation
(tables)t_id -> (tables) t_id, capacity, e_id
(Orders) o_id -> (Orders)o_date, o_type
(Foods) f_id -> (Foods)f_name, f_price
(Employees) e_id -> (Employees)e_name, e_address, e_salary, e_phone
(Jobs) j_id -> (JOBS) j_title
(Booking)C_id,T_id -> (booking) B_date, B_hour
(ITEMS) O_id,F_id -> (items) quantity
```

