**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.

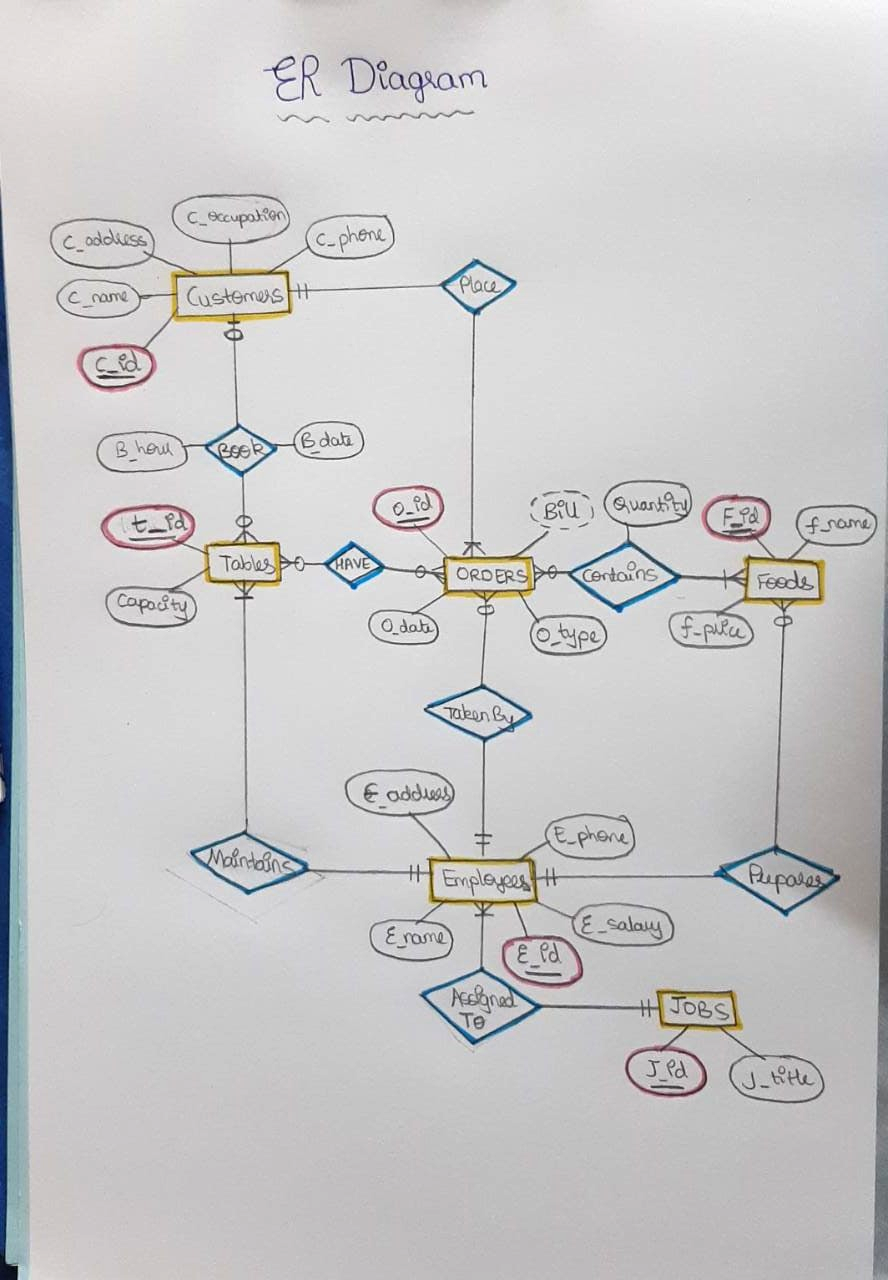
**Objectives:**

* 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:**

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|  |
| --- |
| FOOD |
| F\_Id |
| F\_Name |
| F\_Price |

|  |
| --- |
| CUSTOMER |
| C\_id |
| C\_Name |
| C\_Address |
| C\_Occuption |
| C\_Phone |

|  |
| --- |
| HAVE |
| T\_id |
| T\_Capacity |
| O\_id |
| O\_Date |
| O\_Type |
| O\_Bill |

|  |
| --- |
| CONTAINS |
| O\_id |
| O\_Date |
| O\_Type |
| O\_Bill |
| F\_Id |
| F\_Name |
| F\_Price |
| Quantity |

|  |
| --- |
| EMPLOYEES |
| E\_Id |
| E\_Name |
| E\_Address |
| E\_Phone |
| E\_Salary |

|  |
| --- |
| MAINTAINS |
| E\_Id |
| E\_Name |
| E\_Address |
| E\_Phone |
| E\_Salary |
| T\_id |
| T\_Capacity |

|  |
| --- |
| PREPARE |
| E\_Id |
| E\_Name |
| E\_Address |
| E\_Phone |
| E\_Salary |
| F\_Id |
| F\_Name |
| F\_Price |

|  |
| --- |
| JOBS |
| J\_Id |
| J\_Title |

|  |
| --- |
| TAKEN\_BY |
| O\_id |
| O\_Date |
| O\_Type |
| O\_Bill |
| E\_Id |
| E\_Name |
| E\_Address |
| E\_Phone |
| E\_Salary |

|  |
| --- |
| ORDER |
| O\_id |
| O\_Date |
| O\_Type |
| O\_Bill |

|  |
| --- |
| ASSIGN |
| E\_Id |
| E\_Name |
| E\_Address |
| E\_Phone |
| E\_Salary |
| J\_Id |
| J\_Title |

|  |
| --- |
| TABLE |
| T\_id |
| T\_Capacity |

|  |
| --- |
| PLACE |
| C\_id |
| C\_Name |
| C\_Address |
| C\_Occuption |
| C\_Phone |
| O\_id |
| O\_Date |
| O\_Type |
| O\_Bill |

**Relational Schemas:**

|  |
| --- |
| BOOK |
| C\_id |
| C\_Name |
| C\_Address |
| C\_Occuption |
| C\_Phone |
| T\_id |
| T\_Capacity |
| B\_Date |
| B\_Hours |

**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

![Text, letter

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SdoRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjEwOjExIDA5OjUxOjMyAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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![A piece of paper with writing on it

Description automatically 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Text, letter

Description automatically generated

Text, letter

Description automatically generated

**Normalized Tables (up to 3NF)**

ITEMS

|  |  |  |
| --- | --- | --- |
| 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 |

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

|  |
| --- |
| Employees |
| E\_ID |
| E\_name |
| E\_Phone |
| E\_Address |
| E\_Salary |
| J\_ID |

|  |
| --- |
| TABLES |
| T\_ID |
| Capacity |
| E\_ID |

|  |
| --- |
| JOBS |
| J\_ID |
| J\_title |

|  |
| --- |
| ORDERS |
| O\_ID |
| O\_type |
| O\_date |
| Bill |
| C\_ID |
| E\_ID |

|  |
| --- |
| ITEMS |
| Quantity |
| O\_ID |
| F\_ID |

|  |
| --- |
| ORDER\_HISTORY |
| T\_ID |
| O\_ID |

|  |
| --- |
| FOODS |
| F\_ID |
| F\_name |
| price |
| E\_ID |

|  |
| --- |
| BOOKING |
| C\_ID |
| T\_ID |
| B\_Date |
| B\_hour |

|  |
| --- |
| CUSTOMERS |
| C\_ID |
| C\_name |
| C\_ADDRESS |
| C\_phone |
| C\_occupation |