Relation: *Place*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C\_id | c\_name | c\_address | c\_phone | c\_occupation | o\_no | o\_type | o\_date | *bill* |

1NF:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C\_id | c\_name | c\_address | c\_phone | c\_occupation | o\_no | o\_type | o\_date | *bill* |

2NF:

Customers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C\_id | c\_name | c\_address | c\_phone | c\_occupation |

Orders

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| o\_no | o\_type | o\_date | bill | c\_id |

3NF:

Customers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C\_id | c\_name | c\_address | c\_phone | c\_occupation |

Orders

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| o\_no | o\_type | o\_date | bill | c\_id |

Relation: *Book*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C\_id | c\_name | c\_address | c\_phone | c\_occupation | t\_id | capacity | b\_date | b\_hour |

1NF:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c\_id | c\_name | c\_address | c\_phone | c\_occupation | t\_id | capacity | b\_date | b\_hour |

2NF:

Customers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| c\_id | c\_name | c\_address | c\_phone | c\_occupation |

Tables

|  |  |
| --- | --- |
| t\_id | capacity |

Booking

|  |  |  |  |
| --- | --- | --- | --- |
| c\_id | t\_id | b\_date | b\_hour |

3NF:

Customers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C\_id | c\_name | c\_address | c\_phone | c\_occupation |

Tables

|  |  |
| --- | --- |
| t\_id | capacity |

Booking

|  |  |  |  |
| --- | --- | --- | --- |
| c\_id | t\_id | b\_date | b\_hour |

Relation: *Have*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| t\_id | capacity | o\_no | o\_type | o\_date | bill |

1NF:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| t\_id | capacity | o\_no | o\_type | o\_date | bill |

2NF:

Tables

|  |  |
| --- | --- |
| t\_id | capacity |

Orders

|  |  |  |  |
| --- | --- | --- | --- |
| o\_no | o\_type | o\_date | bill |

Order\_history

|  |  |
| --- | --- |
| t\_id | o\_no |

3NF:

Tables

|  |  |
| --- | --- |
| t\_id | capacity |

Orders

|  |  |  |  |
| --- | --- | --- | --- |
| o\_no | o\_type | o\_date | bill |

Order\_history

|  |  |
| --- | --- |
| t\_id | o\_no |

Relation: *Contain*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| o\_no | o\_type | o\_date | bill | f\_id | f\_name | price | quantity |

1NF:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| o\_no | o\_type | o\_date | bill | f\_id | f\_name | price | quantity |

2NF:

Orders

|  |  |  |  |
| --- | --- | --- | --- |
| o\_no | o\_type | o\_date | bill |

Foods

|  |  |  |
| --- | --- | --- |
| f\_id | f\_name | price |

Items

|  |  |  |
| --- | --- | --- |
| o\_no | f\_id | quantity |

3NF:

Orders

|  |  |  |  |
| --- | --- | --- | --- |
| o\_no | o\_type | o\_date | bill |

Foods

|  |  |  |
| --- | --- | --- |
| f\_id | f\_name | price |

Items

|  |  |  |
| --- | --- | --- |
| o\_no | f\_id | quantity |

Relation: *Taken by*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| o\_id | o\_type | o\_date | bill | e\_id | e\_name | e\_salary | e\_address | e\_phone |

1NF:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| o\_id | o\_type | o\_date | bill | e\_id | e\_name | e\_salary | e\_address | e\_phone |

2NF:

Orders

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| o\_id | o\_type | o\_date | bill | e\_id |

Employees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_phone | e\_address | e\_salary |

3NF:

Orders

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| o\_id | o\_type | o\_date | bill | e\_id |

Employees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_phone | e\_address | e\_salary |

Relation: *Maintain*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_salary | e\_address | e\_phone | t\_id | capacity |

1NF:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_salary | e\_address | e\_phone | t\_id | capacity |

2NF:

Tables

|  |  |  |
| --- | --- | --- |
| t\_id | capacity | e\_id |

Employees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_phone | e\_address | e\_salary |

3NF:

Tables

|  |  |  |
| --- | --- | --- |
| t\_id | capacity | e\_id |

Employees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_phone | e\_address | e\_salary |

Relation: *Prepare*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_salary | e\_address | e\_phone | f\_id | f\_name | price |

1NF:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_salary | e\_address | e\_phone | f\_id | f\_name | price |

2NF:

Employees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_salary | e\_address | e\_phone |

Foods

|  |  |  |  |
| --- | --- | --- | --- |
| f\_id | f\_name | price | e\_id |

3NF:

Employees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_salary | e\_address | e\_phone |

Foods

|  |  |  |  |
| --- | --- | --- | --- |
| f\_id | f\_name | price | e\_id |

Relation: *Assign*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_salary | e\_address | e\_phone | j\_id | j\_title |

1NF:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_salary | e\_address | e\_phone | j\_id | j\_title |

2NF:

Employees

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_salary | e\_address | e\_phone | j\_id |

Jobs

|  |  |
| --- | --- |
| j\_id | j\_title |

3NF:

Employees

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| e\_id | e\_name | e\_salary | e\_address | e\_phone | j\_id |

Jobs

|  |  |
| --- | --- |
| j\_id | j\_title |

Normalized Tables:

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 |

Orders

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| o\_id | o\_type | o\_date | bill | c\_id | e\_id |

Order\_history

|  |  |
| --- | --- |
| t\_id | o\_id |

Items

|  |  |  |
| --- | --- | --- |
| o\_id | f\_id | quantity |