E-R DIAGRAM :

**PO**

**MANAGER**

**SUPPLIER**

Generated for

**for placing**

**takes**

**generates**

**BILL**

**WAITERER**

**ORDER**

**MENU ITEM**

**TABLE**

IS A

**EMPLOYEE**

M 1 1 1 1

**receives**

**generates**

**against**

**GRN**

**INVOICE**

Is generated for

**STOCK**

**has**

**RAW ITEM**

**Given to**

**generates**

**receives**

M M

0000000000000000 M M M

1 1

1

1 M

M 1 1

1

1 M

M 1

***RESTAURANT MANAGEMENT SYSTEM***

USE CASE DIAGRAMS:

**SYSTEM**

**MANAGER**

***SYSTEM LOGIN AND LOGOUT***

**SUPPLIER**

**MANAGER**

***MANAGER AND SUPPLIER INTERACTION***

***WAITER AND CUSTOMER INTERACTION***

**CUSTOMER**

**WAITER**

ACTIVITY DIAGRAM: LOGIN ACTIVITY

**System Shows Login Error**

**Login Success**

**System checks Login Data**

**User enters Login Data**

[invalid]

[valid]

MANAGER – SUPPLIER ACTIVITY

**Receives GRN and Invoice**

**Updates Stock**

**Supplies RI**

**Sends PO**

**Generates PO**

**Checks Stock**

**System Login**

Validation

[ELSE] [CORRECT]

Rejected

Checks Limit

[ELSE]

[FULL]

WAITER – CUSTOMER ACTIVITY

**Take Order**

**By Debit/Credit Cards**

**By CASH**

**Make Payment**

**Provide Bill**

**New Order**

**Serves Order**

DATA DICTIONARY:

1. SUPPLIER

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field Name | Data Type | Size | Constraint | Extra |
| 1 | Scode | Integer | 4 | P.K | Auto-increment |
| 2 | Sname | Varchar | 30 | Not null |  |
| 3 | Smob | Numeric | 10 | Not null |  |
| 4 | Semail | Varchar | 30 | Not null |  |
| 5 | Saddr | Varchar | 100 | Not null |  |

1. PURCHASE ORDER

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field Name | Data Type | Size | Constraint | Extra |
| 1 | Pno | Integer | 4 | P.K | Auto-increment |
| 2 | Rcode | Integer | 4 | F.K |  |
| 3 | Scode | Integer | 4 | F.K |  |
| 4 | Unit of measurement | Varchar | 10 | Not null |  |
| 5 | Qty | Integer | 10 | Not null |  |
| 6 | Prate | Double | (5,2) | Not null |  |
| 7 | Date | Date |  | Not null |  |

1. Raw Item

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field Name | Data Type | Size | Constraint | Extra |
| 1 | RIcode | Integer | 4 | P.K | Auto-increments |
| 2 | RIname | Varchar | 50 | Not null |  |
| 3 | RItype | Varchar | 50 | Not null |  |
| 4 | Unit of measurement | Varchar | 10 | Not null |  |

1. GRN (Goods Receipt note)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Gno | Int | 4 | P.K | Auto- increment |
| 2 | Rcode | Int | 4 | F.K |  |
| 3 | Pno | Int | 4 | F.K |  |
| 4 | Date | Date |  | Not null |  |
| 5 | Unit of measurement | Varchar | 10 | Not null |  |
| 6 | Ordqty | Int | 20 | Not null |  |
| 7 | accpqty | Int | 20 | Not null |  |
| 8 | Rjqty | Int | 20 | Not null |  |
| 9 | seqty | Int | 20 | Not null |  |

1. Stock

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Rcode | Int | 4 | F.K |  |
| 2 | Minqty | Int | 20 | Not null |  |
| 3 | Availqty | Int | 20 | Not null |  |

1. Invoice

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Ino | Int | 4 | P.K | Auto- increment |
| 2 | Gno | Int | 4 | F.K |  |
| 3 | Rcode | Int | 4 | F.K |  |
| 4 | Date | Date |  | Not null |  |
| 5 | Amt | Double | (5,2) | Not null |  |
| 6 | Due amt | Double | (5,2) | Not null |  |
| 7 | Paid amt | Double | (5,2) | Not null |  |
| 8 | Mode of payment | Varchar | 20 | Not null |  |

1. Supplier\_Invoice

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Scode | Int | 4 | F.K |  |
| 2 | Ino | Int | 4 | F.K |  |

1. PO\_RI

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Pno | Int | 4 | F.K |  |
| 2 | Rcode | Int | 4 | F.K |  |

1. Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Tno | Int | 4 | P.K | Auto- increment |
| 2 | Occupancy | Int | 4 | Not null |  |
| 3 | Tstatus | Varchar | 20 | Not null |  |

10)Bill

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Billno | Int | 4 | P.K | Auto- increment |
| 2 | Mcode | Int | 4 | F.K |  |
| 3 | Ordno | Int | 4 | F.K |  |
| 4 | Date | Date |  | Not null |  |
| 5 | Qty | Int | 4 | Not null |  |
| 6 | Amount | Double | (5,2) | Not null |  |
| 7 | Mode of payment | Varchar | 20 | Not null |  |

11)Menu

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Mcode | Int | 4 | P.K | Auto- increment |
| 2 | Mname | Varchar | 20 | Not null |  |
| 3 | Mtype | Varchar | 20 | Not null |  |
| 4 | Mrate | Double | (5,2) | Not null |  |
| 5 | Mstatus | Varchar | 20 | Not null |  |

12) Order

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Ordno | Int | 4 | P.K | Auto- increment |
| 2 | Tno | Int | 4 | F.K |  |
| 3 | Empno | Int | 4 | F.K |  |
| 4 | Date | Date |  | Not null |  |
| 5 | Time | Time |  | Not null |  |

13) Employee

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Empno | Int | 4 | P.K | Auto- increment |
| 2 | DOB | Date |  | Not null |  |
| 3 | DOJ | Date |  | Not null |  |
| 4 | Contact no | Numeric | 10 | Not null |  |
| 5 | Address | Varchar | 100 | Not null |  |
| 6 | Emptype | Varchar | 20 | Not null |  |
| 7 | Salary | Double | (5,2) | Not null |  |

14) Order\_menu

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.no | Field name | Data type | Size | Constraint | Extra |
| 1 | Ordno | Int | 4 | F.K |  |
| 2 | Mcode | Int | 4 | F.K |  |