|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CNum | CName | CAddr | OrderNum | OrderDate | ClerkNum | ClerkName | Item | Desc | Quantity | UPrice | itemtotal | ordertotal |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

**First Normal Form**

Item\_order (ItemNum, OrderNum, Desc, Quantity, UnitPrice, ItemTotal)

Order\_info (OrderNum, OrderDate, ClerkNum, ClerkName, CustNum, CustName, CustAddr, OrderTotal)

**Second Normal Form**

Item (ItemNum, Desc, UnitPrice)

Item\_order (ItemNum, OrderNum, Quantity, ItemTotal)

Order\_info (OrderNum, OrderDate, ClerkNum, ClerkName, CustNum, CustName, CustAddr, OrderTotal)

**Third Normal Form**

Item (ItemNum, Desc, UnitPrice)

Item\_order (ItemNum, OrderNum, Quantity, ItemTotal)

Order\_info (OrderNum, OrderDate, ClerkNum, CustNum, OrderTotal)

Clerk (ClerkNum, ClerkName)

Customer (CustomerNum, CustomerName, CustomerAddress)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Dept # | Dept Name | Loc | Mgr Name | Mgr ID | Tel Extn | Cust # | Cust Name | Complaint Date | Nature of Complaint |
|  |  |  |  |  |  |  |  |  |  |

**First Normal Form**

Customer (CustomerNum, DeptNum, CustomerName, ComplaintDate, ComplaintNature)

Department (DeptNum, DeptName, Loc, MgrName, MgrID, TelExtn)

**Second Normal Form**

Cust\_Dept(CustomerNum, DeptNum, ComplaintDate, ComplaintNature)

Customer (CustomerNum, CustomerName)

Department (DeptNum, DeptName, Loc, MgrName, MgrID, TelExtn)

**Third Normal Form**

Cust\_Dept(CustomerNum, DeptNum, ComplaintDate, ComplaintNature)

Customer (CustomerNum, CustomerName)

Department (DeptNum, DeptName, Loc, MgrID, TelExtn)

Manager (MgrID, MgrName)