****Order Management System****

**ER Diagram** stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entity sets stored in a database. In other words, ER diagrams help to explain the logical structure of databases. ER diagrams are created based on three basic concepts: entities, attributes and relationships.

This ER (Entity Relationship) Diagram represents the model of Order Management System Entity. The entity-relationship diagram of Order Management System shows all the visual instrument of database tables and the relations between Order\_Info, Order\_Dtls , Product\_Info, Client. It used structure data and to define the relationships between structured data groups of Order Management System functionalities.

The main entities of the Order Management System are Order\_Info, Order\_Dtls , Product\_Info, Client.

**Order Management System entities and their attributes:**

* Product\_Info - Attributes of Product\_Info are:

ProductID, Desc, ModelNo, CP, Remarks

It stores the details of the Product available in the store.

* Order\_Info - Attributes of Order\_Info are:

OrderID, Status, Total\_Price**(derived attribute),** OrderDate

It is further divided into two parts based on the status of order:

* + **Fulfilled** - Dely\_Date, Pay\_Method
  + **In Progress** - Exp\_DelyDate

It is linked to Client with foreign key.

* Order\_Dtls (**Weak Entity**) - Attributes of Order\_Dtls are:

ItemNo(**Partial Key**), Price Per Item, Discount**,** Qty

It is linked to Order\_Info and Product \_Info with foreign keys.

* Client - Attributes of Client are:

ClientID, Login\_ID

A Client,category (UNION type), represents union of firm and individual.

* + **Firm:** Name{Fname, Mname, Lname}, Reg No, email\_id**(Multivalued),** Address{Srt\_No, City, State, Pincode}
  + **individual:** Name{Fname, Mname, Lname} , AddharNo, MobileNo**(Multivalued),** Bdate, Age **(Derived),** Address{Srt\_No, City, State, Pincode}

It stores information of its clients.