

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 (**derived attribute**), Qty

It is linked to Order_Info and Product_Info with foreign keys.

- **Client** - Attributes of Client are:

ClientID, Login_ID(**multivalued attribute**)

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.

