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{ CSPC - 202 *DBMS*}



TOPIC: Order Management System

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DATE: 25-Feb-2022

ASSIGNMENT NO.: 1 [ER Modelling]

Make an ER diagram of the corresponding project with maximum use of all the concepts studied in ER and EER Modelling.

- ➤ 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:

- 1) **Product_Info**:- It stores the details of the Product available in the store.
 - ➤ Attributes of Product_Info are:
 - ProductID
 - Desc
 - ModelNo
 - CP
 - Remarks
- 2) Order_Info :- It is linked to Client with foreign key.
 - 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
- **3) Order_Dtls (Weak Entity) :-** It is linked to Order_Info and Product _Info with foreign keys.
 - Attributes of Order_Dtls are:
 - ItemNo (Partial Key)
 - Price Per Item
 - Discount
 - Qty

- 4) Client:- It stores information of its clients.
 - > 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}