Online Ordering System ER Diagram

The **entity-relationship (ER) diagram for online ordering system** describes the relationships of the ordering system entities and converts them into a database. This describes the logical structure of the system's database or data storage. It is done by identifying the online ordering process entities, their properties, and the interactions between them. The database design is sketched out using **online ordering system ER diagram**. This database sketch becomes the actual basis of the system's data storage that will serve as data and source.

What is an ER Diagram?

The ER Diagram is referred to as the **online ordering system database design**. This ER Diagram is the graphical depiction of relationships between all the entities involved in the system. Its major components are Entities, Attributes, and Relationships.

To build and troubleshoot relational databases, the **online ordering system ER Diagram** is used. It works best with DFD (Data Flow Diagram), which is responsible for data movement. Designing the database of online ordering system would be much easier with the help of ER diagram.

Online Ordering System Database Design

The **online ordering system database design** was made based on online ordering requirements. The system can encode customer information. Online Selling admin can have access to the customer status and information for the important transactions. They can handle the data needed in managing customer and product information as well as the transactions made by the customer and seller.

The features included in the system ER diagram were the security and monitoring of the customer orders, transactions, and ordering status. These features were also listed and recorded in reports that served as the history of transactions done in the system.

Importance of ER Diagram

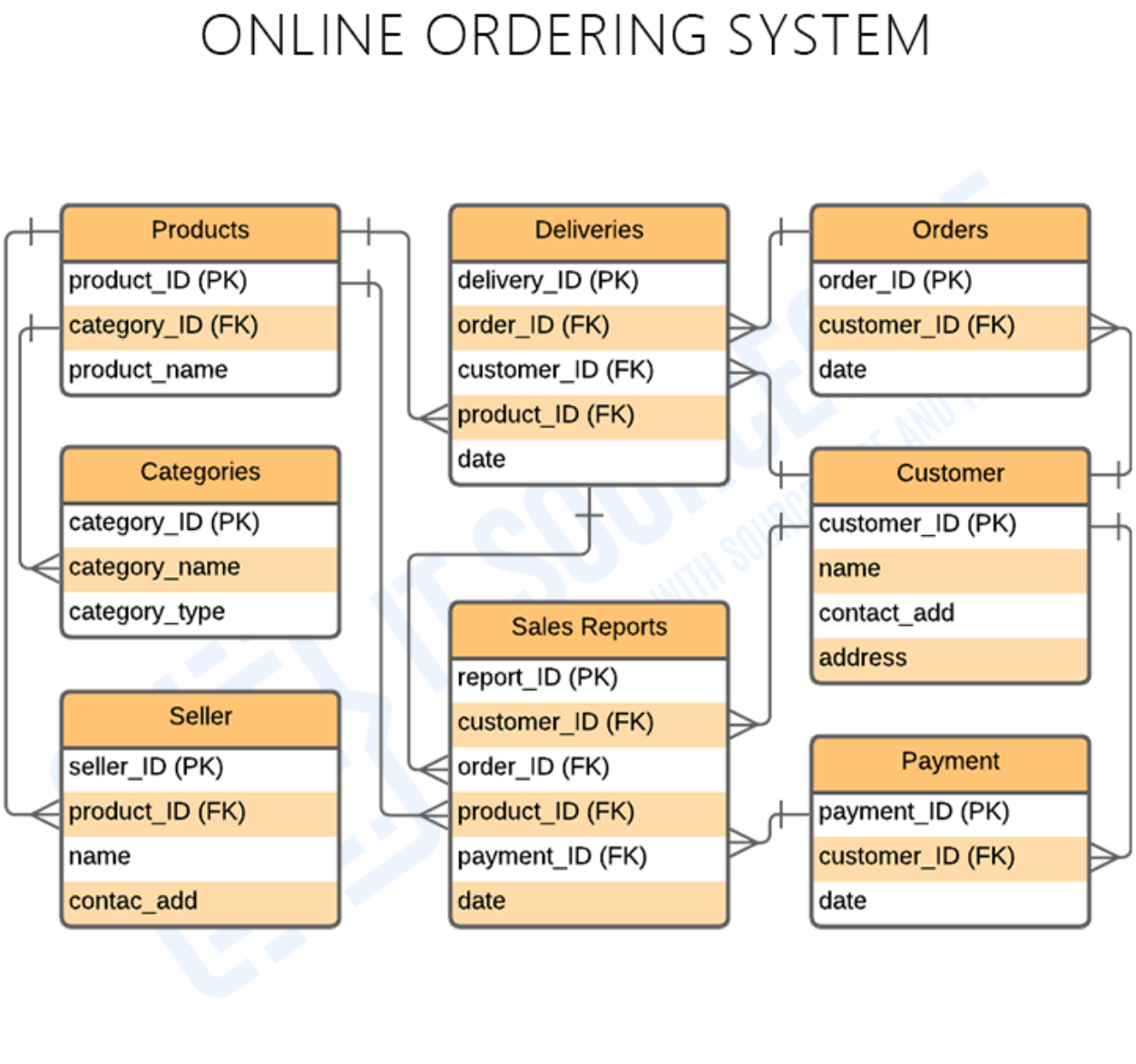
The **importance of ER diagram for online ordering system** is to help in modeling its data storage or database. It is the basis of the project's database foundation for construction. This entity-relationship diagram (ERD) also aids in defining the data types to be stored such as their attributes and characteristics.

In addition to that, the ER Diagram also describes how an entity interacts with other entities. All other real-world projects are presented with ER Diagrams (database designs). To display the details and attributes of a data store, the **er diagram for online ordering system** is used in conjunction with its data flow diagram.

Entity-relationship diagrams are utilized in software engineering during the planning phase of software development. It aids in the identification of various system constituents and their interrelationships. **Online Ordering System ER Diagram** is also used as the foundation of the online ordering system DFD (Dataflow Diagram).

Entity Relationship Diagram for Online Ordering System

ER Diagram of Online Ordering System shows the system entity relationships in each entity and their supposed functions in each relationship.



Online Ordering System ER Diagram

Based on the image above, the **ER diagram for *this System*** is the entity of the **Online Ordering system database**, which is presented by **tables**; products, deliveries, orders, categories, customer, sellers, sales reports, payment. The tables are made to meet the required specification of the system and provide much more specific details of each entity within the system.

Online Ordering System ER Diagram Tables

These tables below provide the complete database table details such as **Field Name**, **Descriptions**, **data types**, and **character lengths**. Each of these tables represents the characteristics and the attributes of data storage.

The **field** column presents the names of each database's attributes, the **description** column gives the complete thought of each attribute, the **type** column is their data type and the **length** is for their character lengths.

Table Name: Customer

Field	Description	Type	Length
customer_ID (PK)	Customer ID	Int	11
name	Customer Name	Varchar	255
contact_address	Customer Contact	Int	11
address	Customer Address	Text	
email	Customer Email	Varchar	255

Table Name: Categories

Field	Description	Type	Length
category_ID (PK)	Category ID	Int	11
category_name	Category Name	Varchar	255
category_type	Category Type	Varchar	255

Table Name: Orders/Reservation

Field	Description	Type	Length
order_ID (PK)	Order ID	Int	11
customer_ID (FK)	Customer ID	Int	11
order_date	Date of Order	Date	

Table Name: Deliveries

Field	Description	Type	Length
acc_ID (PK)	Account ID	Int	11
customer_ID (FK)	Customer ID	Int	11
delivery_date	Date of Delivery	Date	

Table Name: Products

Field	Description	Type	Length

product_ID (PK)	Product ID	Int	11
category_ID (FK)	Category ID	Int	11
product_name	Product Name	Varchar	255

Table Name: Seller

Field	Description	Type	Length
seller_ID (PK)	Seller ID	Int	11
product_ID (FK)	Product Name	Int	11
seller_name	Seller Name	Varchar	255

Table Name: Payment

Field	Description	Type	Length
payment_ID (PK)	Payment ID	Int	11
customer_ID (FK)	Customer ID	Int	11
payment_date	Date of Payment	Date	

Table Name: Sales Report

Field	Description	Type	Length
report_ID (PK)	Report ID	Int	11
customer_ID (FK)	Customer ID	Int	11
order_ID (FK)	Order Id	Int	11
product_ID (FK)	Product Id	Int	11
payment_Id (FK)	Payment Id	Int	11

The tables given will be the basis for developers on how would they design the online ordering database. It has the complete description of the database and they will put this into the program storage the same as the names given to each of the tables. They will create a database with the attributes given as well as the value of each attribute.