

Database Management Systems

Relations:

1)Customers

	user_id	purchase_history	avg_order_value	credentials	phone_number
▶	1	Purchased items A, B, C	150.00	customer1@example.com, password1	123-456-7890
	2	Purchased items D, E	200.00	customer2@example.com, password2	NULL
	3	Purchased items F	100.00	customer3@example.com, password3	NULL
*	NULL	NULL	NULL	NULL	NULL

```
CREATE TABLE Customers (  
    user_id INT PRIMARY KEY,  
    purchase_history TEXT,  
    avg_order_value DECIMAL(10, 2),  
    credentials TEXT  
);
```

Customers: The Customers table holds vital information about individuals utilizing the e-commerce platform, including their unique CustomerID, name, email, phone number, address, and registration date. This data assists in managing customer accounts, tracking orders, and providing personalized services.

2)Categories

	parent_id	category_id	category_name	product_id	search_id
▶	1	101	Category A	1	201
	1	102	Category B	2	202
	2	201	Category C	3	203
	2	202	Category D	4	204

```
CREATE TABLE Categories (  
    parent_id INT,  
    category_id INT,  
    category_name VARCHAR(100),  
    product_id INT,  
    search_id INT  
);
```

Categories: Categories table categorizes the various types of products available on the platform, utilizing fields like CategoryID, Name, and Description. This organization facilitates easier navigation for customers, enabling them to browse and discover products within specific categories of interest.

3) Cart

	cart_id	user_id	num_of_products
▶	101	1	3
	102	1	2
	103	2	2
	104	3	1
•	NULL	NULL	NULL

```
CREATE TABLE Cart (  
    cart_id INT PRIMARY KEY,  
    user_id INT,  
    num_of_products INT  
);
```

Categories: Categories table categorizes the various types of products available on the platform, utilizing fields like CategoryID, Name, and Description. This organization facilitates easier navigation for customers, enabling them to browse and discover products within specific categories of interest.

4)Customer Support

	ticket_number	compensation	complaints	user_id	review_id	logistics_id
▶	1001	50.00	Product arrived damaged	1	1	101
	1002	0.00	Delayed delivery	2	2	102
	1003	20.00	Wrong item shipped	3	3	103
	1004	10.00	Poor customer service experience	1	4	104
•	NULL	NULL	NULL	NULL	NULL	NULL

```
CREATE TABLE CustomerSupport (  
    ticket_number INT PRIMARY KEY,  
    compensation DECIMAL(10, 2),  
    complaints TEXT,  
    user_id INT,  
    review_id INT,  
    logistics_id INT  
);
```

Customer Support: Customer Support table handles support tickets initiated by customers, tracking details such as TicketID, CustomerID, Issue, Status, and timestamps. This allows customer service teams to efficiently address inquiries, monitor ticket statuses, and ensure timely resolutions to customer concerns.

5)Inventory

	doc_number	inventory_size	seller_id
▶	101	Large	1
	102	Medium	2
	103	Small	3
	104	Extra Large	1
•	NULL	NULL	NULL

```
CREATE TABLE Inventory (  
    doc_number INT PRIMARY KEY,  
    inventory_size VARCHAR(50),  
    seller_id INT  
);
```

Inventory: Inventory table maintains real-time information about the available stock of products, using fields like ProductID, QuantityAvailable, and Price. By monitoring inventory levels and pricing, the system can prevent overselling, notify customers of stock shortages, and facilitate smooth order fulfillment processes.

6)Logistics

	team_number	development_metrics	performance_metrics
▶	105	88.20	92.50
	106	91.30	89.80
	107	82.50	87.90
	108	94.70	90.30
	109	86.90	88.40
	110	93.20	91.70
•	NULL	NULL	NULL

```
CREATE TABLE Logistics (  
    team_number INT PRIMARY KEY,  
    development_metrics DECIMAL(10, 2),  
    performance_metrics DECIMAL(10, 2)  
);
```

Logistics: Logistics table tracks the delivery status and details of orders, including LogisticsID, OrderID, DeliveryStatus, EstimatedDeliveryDate, and ActualDeliveryDate. This helps logistics teams coordinate shipments, provide accurate delivery estimates to customers, and monitor the progress of orders throughout the shipping process.

7)Online Payment

	transaction_id	net_banking	credit_debit_card	upi	payment_id
▶	1	Yes	No	Yes	1
	2	No	Yes	No	2
	3	Yes	Yes	Yes	3
	4	No	No	Yes	4

```
CREATE TABLE OnlinePayment (  
    transaction_id INT PRIMARY KEY,  
    net_banking VARCHAR(50),  
    credit_debit_card VARCHAR(50),  
    upi VARCHAR(50),  
    payment_id INT  
);
```

Online Payment: Online Payment table records transactions made by customers for their orders, storing data such as PaymentID, OrderID, PaymentMethod, Amount, and Status. This ensures secure processing of payments, facilitates reconciliation of orders and payments, and enables tracking of payment statuses

8)Payment

	payment_id	payment_date	cart_id	shipping_id	online_payment_id	offline_payment_id	seller_id
▶	1	2024-02-27	101	1	1	1	1
	2	2024-02-26	102	2	2	2	2
	3	2024-02-25	103	3	3	3	3
	4	2024-02-24	104	4	4	4	4
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid

Filter Rows:

Edit:

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Wrap Cell Content: [TA](#)

	product_id	brand	price	name	description	discounts	customer_id	review_id	category_id	seller_id
▶	1	Brand A	999.99	Laptop	High-performance laptop with advanced features.	10.00	1	1	1	1
	2	Brand B	499.99	Smartphone	Latest smartphone with a stunning display.	5.00	2	2	2	2
	3	Brand C	199.99	Headphones	Premium noise-canceling headphones for immer...	15.00	3	3	3	3
	4	Brand D	299.99	Tablet	Lightweight tablet with long battery life.	8.00	4	4	4	4
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
CREATE TABLE Payment (  
    payment_id INT PRIMARY KEY,s  
    payment_date DATE,  
    cart_id INT,  
    shipping_id INT,  
    online_payment_id INT,  
    offline_payment_id INT,  
    seller_id INT  
);
```

Payment: Payment table manages various forms of payments made by customers, using fields like PaymentID, CustomerID, Amount, PaymentDate, and PaymentMethod. It centralizes payment data, supports financial reporting, and enables analysis of payment trends and preferences.

9) Seller

	seller_id	name	contact	inventory_id	product_id	payment_id
▶	1	ABC Electronics	123-456-7890	101	1	1
	2	XYZ Store	987-654-3210	102	2	2
	3	GHI Tech	456-789-0123	103	3	3
-	NULL	NULL	NULL	NULL	NULL	NULL

```
CREATE TABLE Seller (  
    seller_id INT PRIMARY KEY,  
    name VARCHAR(100),  
    contact VARCHAR(50),  
    inventory_id INT,  
    product_id INT,  
    payment_id INT  
);
```

Seller: Seller table contains information about individuals or businesses selling products on the platform, including SellerID, Name, Email, Phone, and Address. This data enables effective communication with sellers, verification of seller identities, and management of seller accounts.

10) Shipping

	transaction_id	mode_of_shipping	quantity	cart_id	payment_id
▶	1	Express	3	101	1
	2	Standard	2	102	2
	3	Express	5	103	3
	4	Standard	1	104	4
★	NULL	NULL	NULL	NULL	NULL

```
CREATE TABLE Shipping (  
    transaction_id INT PRIMARY KEY,  
    mode_of_shipping VARCHAR(50),  
    quantity INT,  
    cart_id INT,  
    payment_id INT  
);
```

Shipping: Shipping table handles shipping details and methods for orders, tracking information such as ShippingID, OrderID, ShippingMethod, ShippingCost, and TrackingNumber. By managing shipping logistics, this table ensures accurate shipping quotes, provides tracking information to customers, and facilitates efficient order delivery.

11) Product

product_id	brand	price	name	description	discounts	customer_id	review_id	category_id	seller_id
1	Brand A	999.99	Laptop	High-performance laptop with advanced features.	10.00	1	1	1	1
2	Brand B	499.99	Smartphone	Latest smartphone with a stunning display.	5.00	2	2	2	2
3	Brand C	199.99	Headphones	Premium noise-canceling headphones for immer...	15.00	3	3	3	3
4	Brand D	299.99	Tablet	Lightweight tablet with long battery life.	8.00	4	4	4	4

```
CREATE TABLE Product (  
    product_id INT PRIMARY KEY,  
    brand VARCHAR(50),  
    price DECIMAL(10, 2),  
    name VARCHAR(100),  
    description TEXT,  
    discounts DECIMAL(5, 2),  
    customer_id INT,  
    review_id INT,  
    category_id INT,  
    seller_id INT  
);
```

Product: Product table stores comprehensive details about the products available for sale, including ProductID, Name, Description, CategoryID, Price, StockQuantity, and other relevant attributes. This central repository of product data supports product listing, search, and recommendation functionalities, enabling customers to find and purchase desired items easily