

DBMS DESIGN PROJECT

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APPLICATION NAME: E-Commerce website

DESCRIPTION:

Growing E-commerce website, uses DBMS which helps to communicate to the warehouse for the orders. It allows to store and organize large amounts of data, which is essential for the smooth operation of the website and for the suppliers.

OPERATIONS	ADDITIONAL INFORMATION
ADD	Insert into Table_name
DELETE	Delete from Table_name
SEARCH	Select from Table_name
DISPLAY	Select * from Table_name

FORM NAMES AND DESCRIPTIONS:

NAME	TYPE	TABLE RELATED INFORMATION	OPERATIONS
CATEGORY	MASTER FORM	USER CATEGORY	DELETE, SEARCH, DISPLAY AND ADD
USER	TRANSACTION	USER TABLE	

REPORTS:

- Monthly sales history via analyst from a huge amount of data.
- E-commerce websites helps to communicate the order details to the warehouse, for which the customer placed for purchase.
- Demand and supply satisfaction if needed for the customers.

QUESTION:

1. What is the Order placed by the customer?
2. What is the expected date for the delivery?
3. When should the warehouse should dispatch the item so that Order could reach the customer on the expected delivery date?
4. Is the delivery status for a particular order is delivered?

TABLES:

TABLE NAMES	TABLE TYPES
User_details	User Table
User_address	Transaction Table
User_payment	Transaction Table
Order_details	Master Table
Item_info	Transaction Table
Product_Details	Master Table
Warehouse	Master Table
Warehouse_stock	Transaction Table
Carrier_handle	Master Table
Logisttic_info	Transaction Table
Delivery_details	Master Table

USER TABLE : User_Details

ATTRIBUTES	DATA TYPE	CONSTRAINTS
User_Id	Int	Primary key
User_name	varchar	Unique
Password	varchar	Not null
Telephone	varchar	Not null

TRANSACTION TABLE: User_Address

ATTRIBUTES	DATA TYPE	CONSTRAINTS
User_id	Int	Foreign key
AddressLine_1	Varchar	Not null
AddressLine_2	Varchar	
City	Varchar	Not null
State_name	varchar	Not null
Country	Varchar	Not null
Postal_code	Int	Not null
Landmark	Varchar	
Mobile	Varchar	

TRANSACTION TABLE: User_payment

ATTRIBUTES	DATA TYPE	CONSTRAINTS
User_id	Int	Foreign key

Payment_type	Varchar	
Bank_Provider_name	Varchar	
Account_no	varchar	
Expriy_date	Date	

MASTER TABLE: Order_details

ATTRIBUTES	DATA TYPE	CONSTRAINTS
Order_id	Int	Primary key
User_id	Int	Foreign key
Total	Float	Not null
Payment_status	varchar	Default
Payment_id	Int	unique
Created_at	Timestamp	Not null

TRANSACTION TABLE: Item_info

ATTRIBUTES	DATA TYPE	CONSTRAINTS
Order_id	Int	Foreign key
Product_id	Int	Foreign key
Item_name	varchar	Not null
Quantity	Int	Not null

MASTER TABLE: Product_details

ATTRIBUTES	DATA TYPE	CONSTRAINTS
Product_id	Int	Primary key
Name	Varchar	Unique
Desc	Text	
Price	Float	Not null
Discount	Float	
Total_amount	Float	

MASTER TABLE: Warehouse

ATTRIBUTES	DATA TYPE	CONSTRAINTS
Warehouse_id	Int	Primary key
Company_name	varchar	unique

Address	varchar	unique
City	Varchar	Not null
State_name	Varchar	Not null
Country	Varchar	Not null
Postal_code	Int	Not null
Phone	Int	
Rating	Int	Check

TRANSACTION TABLE: Warehouse_Stock

ATTRIBUTES	DATA TYPE	CONSTRAINTS
Warehouse_id	Int	Foreign key
Order_Id	Int	Foreign key
Product_id	Int	Foreign key
Item_name	varchar	Not null
Required_Quantity	Int	Not null
Warehouse_Remaining_Qty	Int	Not null

MASTER TABLE: Carrier_handle

ATTRIBUTES	DATA TYPE	CONSTRAINTS
Logistic_id	Int	Primary_key
Order_id	Int	Foreign key
Warehouse_pickup_status	Varchar(1)	Default
Delivery_deadline	Date	Not null
Current_delivery_status	Varchar(1)	Default

TRANSACTION TABLE: Logistic_info

ATTRIBUTES	DATA TYPE	CONSTRAINTS
Logistic_id	Int	Foreign key
Logistic_name	varchar	Not null
Address	Varchar	Not null
Logistic_phone	varchar	Not null
Service_location	Varchar	Not null
Delivery_id	Int	Foreign key

MASTER TABLE : Delivery_details

ATTRIBUTES	DATA TYPE	CONSTRAINTS
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Delivery_id	Int	Primary key
Order_id	Int	Foreign key
Product_id	Int	Foreign key
Delivered_status	Varchar	Default 'Nil'
Paid_on_cod_status	Varchar	Default
Return_period	varchar	Not null
Product_ratings	varchar	Check
Package_ratings	Varchar	Check