

DMDD Report 1
ORDER FULFILMENT DATABASE MANAGEMENT SYSTEM
TEAM 5

Problem Statement:

As a leading online home goods retailer, Wayfair is facing significant challenges in managing its data manually. These challenges include inefficient tracking of customer orders and payments, difficulty in updating and retrieving supplier information, difficulty in managing product details and stock levels, and inaccurate tracking of customer information. To address these challenges and meet the expectations of its customers, Wayfair requires an effective online fulfilment database system that streamlines the order management process, ensures efficient and secure payment processing, and provides real-time visibility into supplier information, product details, and customer information.

Objectives:

1. Implement an efficient database system to easily store and retrieve customer and supplier information.
2. Introduce a tracking system for customer orders, payments, and order fulfilment status to speed up and streamline the order management process.
3. Automate the process of storing and retrieving product details and stock levels for real-time inventory management.
4. Implement a system for categorizing products and managing product categories.
5. Improve accuracy in storing and retrieving customer information to provide a better customer experience

Query:

```
--DISPLAY QUANTITY OF EACH PRODUCT CATEGORIZED BY CATEGORY IN DECREASING ORDER OF QUANTITY
select
c.category_name,
p.product_name,
p.product_quantity
from ofd_products p join ofd_category c on p.category_id = c.category_id
order by category_name, product_quantity desc;
```

Description:

Finding out the quantity of each product categorized by category in decreasing order of quantity at a glance will allow the management at Wayfair to decide on whether a product has to be restocked if there is a low quantity or if to run additional marketing campaigns or include discounts for products or categories that have a large quantity.



Worksheet Query Builder

```
1 select
2 c.category_name,
3 p.product_name,
4 p.product_quantity
5 from ofd_products p join ofd_category c on p.category_id = c.category_id
6 order by category_name, product_quantity desc;
7
```

Query Result x

All Rows Fetched: 25 in 1.411 seconds

	CATEGORY_NAME	PRODUCT_NAME	PRODUCT_QUANTITY
1	Bedding	Comforter	100
2	Bedding	Twin Mattress	80
3	Bedding	Queen Mattress	50
4	Bedding	Quilt	4
5	Bedding	Bedsheet	0
6	Cleaning Appliances	Robotic vacuum	120
7	Cleaning Appliances	Stick Vacuum Cleaner	66
8	Cleaning Appliances	Steam Mop	55
9	Cleaning Appliances	Upright Vacuum Cleaner	50
10	Cleaning Appliances	Steam Cleaner	0
11	Home Appliances	Range Hood	11
12	Home Appliances	Mini Refrigerator	4
13	Home Appliances	Refrigerator	4
14	Home Appliances	Dishwasher	4
15	Home Appliances	Wine and Beverage Refrigerator	3
16	Kitchen Appliances	Home coffee machine	100
17	Kitchen Appliances	Air Fryer	90
18	Kitchen Appliances	Microwave Oven	80
19	Kitchen Appliances	Toaster	60
20	Kitchen Appliances	Food Processor	60
21	Organization	Bookcase	42
22	Organization	3 Drawer Cabinet	25
23	living room	Futon	52
24	living room	Upholstered Sofa	48
25	living room	Coffee Table	31