

**DMDD Report 2**  
**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 AMOUNT SPENT BY EACH CUSTOMER EVERY MONTH
with cte as (select distinct c.customer_id, c.first_name, c.last_name ,
(to_char(o.date_of_purchase, 'Month') || ' ' || to_char(o.date_of_purchase, 'yyyy')) as "Month",
extract(month from o.date_of_purchase),
sum(od.quantity* p.product_price) over (partition by extract(month from o.date_of_purchase), extract(year
from o.date_of_purchase)) as "Total Amount Spent"
from ofd_orders o
join ofd_customer c on o.customer_id = c.customer_id
join ofd_order_details od on od.order_id = o.order_id
join ofd_products p on od.product_id = p.product_id
order by customer_id, extract(month from o.date_of_purchase))
select customer_id, first_name, last_name, "Month", "Total Amount Spent" from cte;
```

**Description:**

This report will allow senior managers and executive staff to get a clear view of customer spendings in each month and will help in improving their targeted marketing campaigns

Welcome Page
DMDDspring

Worksheet
Query Builder

```

with cte as (select distinct c.customer_id, c.first_name, c.last_name ,
(to_char(o.date_of_purchase, 'Month')|| ' ' || to_char(o.date_of_purchase, 'yyyy')) as "Month",
extract(month from o.date_of_purchase),
sum(od.quantity* p.product_price) over (partition by extract(month from o.date_of_purchase), extract(year from o.date_of_purchase)) as "Total Amount Spent"
from ofd_orders o
join ofd_customer c on o.customer_id = c.customer_id
join ofd_order_details od on od.order_id = o.order_id
join ofd_products p on od.product_id = p.product_id
order by customer_id, extract(month from o.date_of_purchase))
select customer_id, first_name, last_name, "Month", "Total Amount Spent" from cte;

```

Script Output
Query Result

SQL
All Rows Fetched: 20 in 2.66 seconds

	CUSTOMER_ID	FIRST_N...	LAST_NAME	Month	Total Amount Spent
1	C101	John	Cena	January 2023	7098.21
2	C101	John	Cena	February 2023	7234.23
3	C101	John	Cena	April 2023	875.98
4	C102	Steve	Austin	January 2023	7098.21
5	C102	Steve	Austin	February 2023	7234.23
6	C102	Steve	Austin	March 2023	3887.17
7	C103	Alberto	Rio	February 2023	7234.23
8	C103	Alberto	Rio	March 2023	3887.17
9	C104	Roman	Reigns	January 2023	7098.21
10	C104	Roman	Reigns	February 2023	7234.23
11	C104	Roman	Reigns	March 2023	3887.17
12	C105	Seth	Rollins	February 2023	7234.23
13	C106	Brock	Lesnar	January 2023	7098.21
14	C107	Stephanie	Mcmahon	January 2023	7098.21
15	C107	Stephanie	Mcmahon	February 2023	7234.23
16	C108	Charlotte	Brown	February 2023	7234.23
17	C109	Becky	Lynch	March 2023	3887.17
18	C110	David	Warner	January 2023	7098.21
19	C110	David	Warner	February 2023	7234.23
20	C110	David	Warner	March 2023	3887.17