DMDD Report 5
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 ORDER_ID, PRODUCT, SOURCE AND DESTINATION FOR DELAYED DELIVERIES (> 30 DAYS)
select o.order_id, p.product_name,  s.city as source, c.city as destination, od.status, o.date_of_purchase
from ofd_order_details od join ofd_orders o on o.order_id = od.order_id
join
ofd_products p on p.product_id = od.product_id
join
ofd_supplier s on s.supplier_id = p.supplier_id
join
ofd_customer c on c.customer_id = o.customer_id
where od.status in ('Confirmed') and (sysdate - o.date_of_purchase) > 30;
```

Description:
This report returns all products (along with order id) that have been delayed by more than 30 days. This also helps with customer service issues as well as throwing light on areas to work upon.

Worksheet | Query Builder

```sql
1  select o.order_id, p.product_name,  s.city as source, c.city as destination, od.status, o.date_of_purchase
2  from ofd_order_details od join ofd_orders o on o.order_id = od.order_id
3  join
4  ofd_products p on p.product_id = od.product_id
5  join
6  ofd_supplier s on s.supplier_id = p.supplier_id
7  join
8  ofd_customer c on c.customer_id = o.customer_id
9  where od.status in ('Confirmed') and (sysdate - o.date_of_purchase) > 30;
```

Script Output ×   ▶ Query Result ×

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	ORDER_ID	PRODUCT_NAME	SOURCE	DESTINATION	STATUS	DATE_OF_PURCHASE
1	0104	Coffee Table	Boston	Austin	Confirmed	03-JAN-23
2	0108	Coffee Table	Boston	Austin	Confirmed	03-MAR-23
3	0106	Quilt	Seattle	Austin	Confirmed	28-FEB-23
4	0121	Quilt	Seattle	Cleveland	Confirmed	09-FEB-23
5	0121	Upright Vacuum Cleaner	Portland	Cleveland	Confirmed	09-FEB-23
6	0108	Stick Vacuum Cleaner	Portland	Austin	Confirmed	03-MAR-23
7	0114	Microwave Oven	Austin	Boston	Confirmed	07-FEB-23
8	0114	Food Processor	Austin	Boston	Confirmed	07-FEB-23
9	0114	Air Fryer	Austin	Boston	Confirmed	07-FEB-23
10	0114	Home coffee machine	Austin	Boston	Confirmed	07-FEB-23
11	0114	Toaster	Austin	Boston	Confirmed	07-FEB-23
12	0125	Toaster	Austin	Portland	Confirmed	24-JAN-23
13	0115	Dishwasher	Fermont	Boston	Confirmed	03-MAR-23
14	0125	Dishwasher	Fermont	Portland	Confirmed	24-JAN-23
15	0115	Refrigerator	Fermont	Boston	Confirmed	03-MAR-23
16	0125	Refrigerator	Fermont	Portland	Confirmed	24-JAN-23
17	0116	Mini Refrigerator	Fermont	Boston	Confirmed	01-JAN-23
18	0134	Mini Refrigerator	Fermont	Dallas	Confirmed	02-FEB-23
19	0116	Range Hood	Fermont	Boston	Confirmed	01-JAN-23
20	0134	Range Hood	Fermont	Dallas	Confirmed	02-FEB-23
21	0116	Wine and Beverage Refrigerator	Fermont	Boston	Confirmed	01-JAN-23