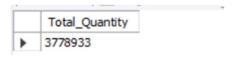
Project Name – Ecommerce Orders & Shipment Analysis

The Dataset contain 4 tables are products_df, orders_df, shipments_df, suppliers_df

The SQL Queries are

#Total_Quantity

select sum(Quantity) as Total Quantity from orders df;



#Total_Orders

select count(distinct OrderID) as Total_Orders from orders_df;



#Total_Price

select sum(UnitPriceUSD) as Total_Price from products_df;



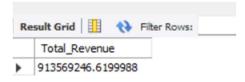
#Total_Revenue

select sum(p.UnitPriceUSD * o.Quantity) as Total_Revenue

from products_df as p

join orders_df as o

on p.ProductID= o.ProductID;



#Delivered Orders

select count(*) as Delivered_Orders from orders_df
where OrderStatus='Delivered';

```
Delivered_Orders

3332
```

#Cancelled_Orders

select count(*) as Cancelled_Orders from orders_df
where OrderStatus='Cancelled';



#Pending_Orders

select count(*) as Pending_Orders from orders_df

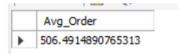
where OrderStatus='Pending';



#Average_Orders

select (sum(Quantity) / COUNT(DISTINCT OrderID)) as Avg_Order

from orders_df;



how many customer orders were successfully fulfilled

SELECT

(COUNT(CASE WHEN OrderStatus = 'Delivered' THEN 1 END) * 100.0)

/ COUNT(DISTINCT OrderID) AS Fulfillment_Rate

FROM orders_df;



#Revenue Per ProductID

select p.ProductID, p.UnitPriceUSD,o.Quantity ,sum(p.UnitPriceUSD * o.Quantity) as Revenue from products df as p

join orders_df as o

on p.ProductID= o.ProductID

group by p.ProductID, p.UnitPriceUSD,o.Quantity;

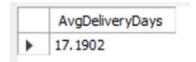
					_
	ProductID	UnitPriceUSD	Quantity	Revenue	-
•	P0978	491.94	519	510633.72	
	P0493	494.15	990	489208.5	
	P0829	498.54	971	484082.34	
	P0235	488.39	990	483506.1	
	P0876	495.88	974	482987.12	
	P0974	485.41	991	481041.31	
	D0744	400.20	074	A77522 72	

Average Delivery Time (days)

Select AVG(DATEDIFF(DeliveryDate, ShipDate)) AS AvgDeliveryDays

FROM shipments_df

WHERE DeliveryDate IS NOT NULL;



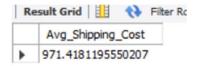
#Avg_Shipping_Cost

select (sum(s.ShippingCostUSD) / count(distinct o.OrderID)) as Avg_Shipping_Cost

from orders_df as o

join shipments_df as s

on o.OrderID = s.OrderID;



Shipping Cost by Mode - Air, Sea, Road, Rail

select ShippingMode, sum(ShippingCostUSD) as Total_Shipping_Cost

from shipments_df

group by ShippingMode

order by Total_Shipping_Cost desc;

	ShippingMode	Total_Shipping_Cost
Þ	Air Freight	2520815.8999999943
	Rail	2504456.5800000005
	Road	2377424.48
	Sea Freight	2330919.11

Shipment Mode which are delivered

select ShippingMode, count(case when Delivered='True' then 1 End) as Delivereds from shipments_df group by ShippingMode order by Delivereds desc;

	ShippingMode	Delivereds
١	Rail	1203
	Air Freight	1193
	Road	1070
	Sea Freight	1062

which Category generates the highest Total Revenue

select p.Category, sum(p.UnitPriceUSD * o.Quantity) as Total_Revenue from products_df as p join orders_df as o on p.ProductID = o.ProductID group by p.Category order by Total_Revenue desc;

		-
	Category	Total_Revenue
•	Cables	166130214.72000003
	Components	164997243.07999998
	Power Units	147263478.67000014
	Display Units	146410530.3300002
	Controllers	144685789.5500001
	Sensors	144081990.26999986

which Category generates the highest Orders

select p.Category, count(distinct o.OrderID) as Total_Orders from products_df as p join orders_df as o

on p.ProductID = o.ProductID group by p.Category order by Total_Orders desc;

	Category	Total_Orders
١	Cables	1305
	Components	1253
	Sensors	1228
	Display Units	1172
	Controllers	1140
	Power Units	1131

which Category has highest quantities sold

select p.Category, Sum(o.Quantity) as Total_Quantity from products_df as p join orders_df as o

on p.ProductID = o.ProductID

group by p.Category

order by Total_Quantity desc;

	1	
	Category	Total_Quantity
١	Cables	668497
	Components	645973
	Sensors	608309
	Display Units	586138
	Controllers	580089
	Power Units	573168

#Highest Revenue by Warehouse

select o.Warehouse, sum(p.UnitPriceUSD * o.Quantity) as Total_Revenue from products_df as p
join orders_df as o
on p.ProductID = o.ProductID
group by o.Warehouse
order by Total Revenue desc;



Which Supplier and Country is making high Revenue

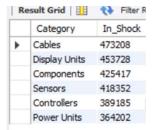
select s.SupplierID, s.Country,sum(p.UnitPriceUSD * o.Quantity) as Total_Revenue from products_df as p
join orders_df as o
on p.ProductID = o.ProductID
join suppliers_df as s
on p.SupplierID=s.SupplierID
group by s.SupplierID, s.Country



order by Total Revenue desc;

Which Category has highest StockLevel

select Category, sum(StockLevel) as In_Shock from products_df group by Category order by In_Shock desc;



Which SupplierID has highest StockLevel

select SupplierID, sum(StockLevel) as In_Shock from products_df group by SupplierID order by In_Shock desc;

	SupplierID	In_Shock
١	S015	71318
	S002	70010
	S011	68079
	S025	67936
	S017	66570
	S040	66247