A graphic of a delivery service

Description automatically generated with medium confidence

**SUPPLY CHAIN ANALYSIS**

**FASHION AND BEAUTY**

**SQL SERVER**

**Importing Data:**

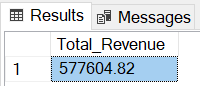
**Created database as FashionandBeauty**

**Imported Supply\_Chain\_Data.CSV file with schema dbo.supplychain**

**## Total Revenue:**

select round(sum(Revenue\_generated),2) as Total\_Revenue

from dbo.supplychain;



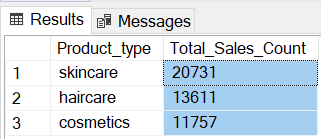
**## Highest Selling Product:**

select Product\_type, sum(Number\_of\_products\_sold) as Total\_Sales\_Count

from dbo.supplychain

group by Product\_type

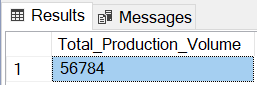
order by Total\_Sales\_Count desc;



**## Production Volume:**

select sum(Production\_volumes) as Total\_Production\_Volume

from dbo.supplychain;



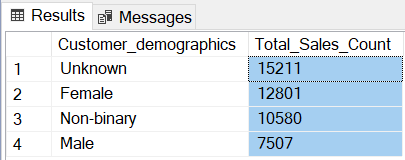
**## Highest Selling Customer:**

select Customer\_demographics, sum(Number\_of\_products\_sold) as Total\_Sales\_Count

from dbo.supplychain

group by Customer\_demographics

order by Total\_Sales\_Count desc;



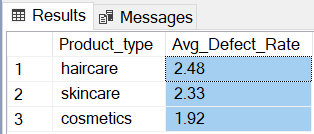
**## Average Defect Rate by Product Type:**

select Product\_type, round(avg(Defect\_rates),2) as Avg\_Defect\_Rate

from dbo.supplychain

group by Product\_type

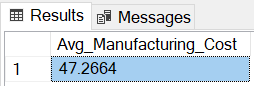
order by Avg\_Defect\_Rate desc;



**## Average Manufacturing cost:**

select avg(Manufacturing\_costs) as Avg\_Manufacturing\_Cost

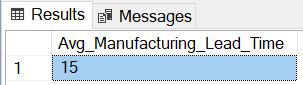
from dbo.supplychain;



**## Average Manufacturing Lead Time:**

select round(avg(cast(Manufacturing\_lead\_time as float)),0) as Avg\_Manufacturing\_Lead\_Time

from dbo.supplychain;



**## Product Availability by SKU (Top 20):**

select SKU, round(sum(cast(Availability as float)),2) as Availability

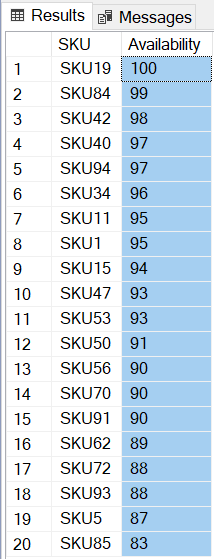
from dbo.supplychain

group by SKU

order by Availability desc

offset 0 rows

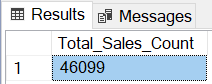
fetch next 20 rows only;



**## Total Product Sold:**

select sum(Number\_of\_products\_sold) as Total\_Sales\_Count

from dbo.supplychain;



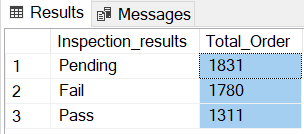
**## Order Quantity by Inspection Results:**

select Inspection\_results, sum(cast(Order\_quantities as float)) as Total\_Order

from dbo.supplychain

group by Inspection\_results

order by Total\_Order desc;



**## Order Quantity by SKU (Top 20):**

select SKU, sum(cast(Order\_quantities as float)) as Total\_Order

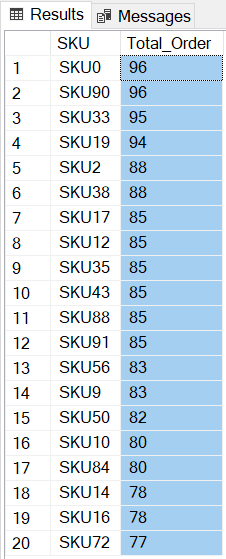
from dbo.supplychain

group by SKU

order by Total\_Order desc

offset 0 rows

fetch next 20 rows only;



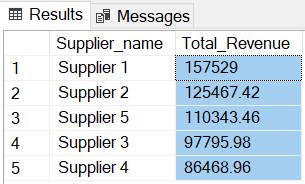
**## Revenue Generated by Supplier:**

select Supplier\_name, round(sum(Revenue\_generated),2) as Total\_Revenue

from dbo.supplychain

group by Supplier\_name

order by Total\_Revenue desc;



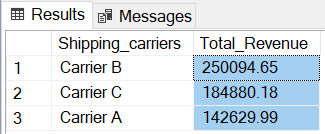
**## Revenue Generated by Shipping Carriers:**

select Shipping\_carriers, round(sum(Revenue\_generated),2) as Total\_Revenue

from dbo.supplychain

group by Shipping\_carriers

order by Total\_Revenue desc;



**## Stock Levels by SKU (Top 20):**

select SKU, sum(cast(Stock\_levels as float)) as Total\_Stock\_Levels

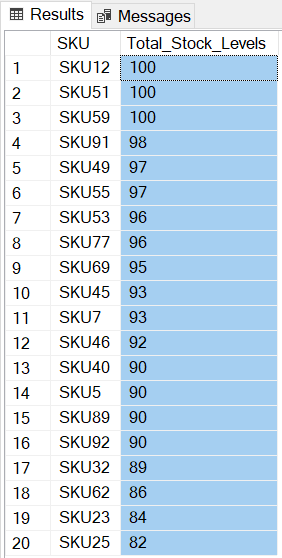
from dbo.supplychain

group by SKU

order by Total\_Stock\_Levels desc

offset 0 rows

fetch next 20 rows only;



**## Revenue Generated by SKU (Top 20):**

select SKU, round(sum(Revenue\_generated),2) as Total\_Revenue

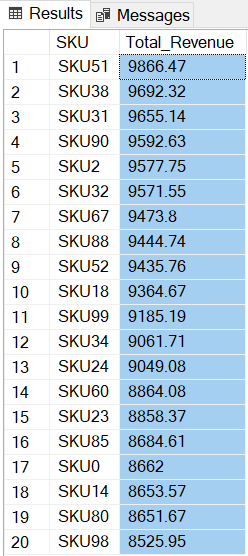
from dbo.supplychain

group by SKU

order by Total\_Revenue desc

offset 0 rows

fetch next 20 rows only;



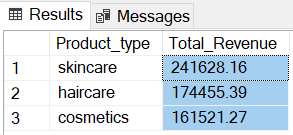
**## Revenue Generated by Product Type:**

select Product\_type, round(sum(Revenue\_generated),2) as Total\_Revenue

from dbo.supplychain

group by Product\_type

order by Total\_Revenue desc;



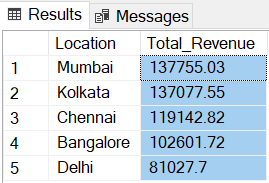
**## Revenue Generated by Location:**

select Location, round(sum(Revenue\_generated),2) as Total\_Revenue

from dbo.supplychain

group by Location

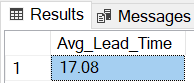
order by Total\_Revenue desc;



**## Average Lead Time:**

select avg(cast(Lead\_time as float)) as Avg\_Lead\_Time

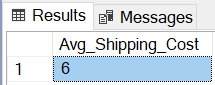
from dbo.supplychain;



**## Average Shipping Cost:**

select round(avg(Shipping\_costs),0) as Avg\_Shipping\_Cost

from dbo.supplychain;



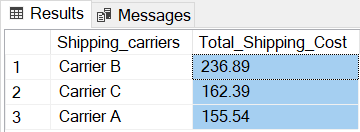
**## Shipping Cost by Each Carriers:**

select Shipping\_carriers, round(Sum(Shipping\_costs),2) as Total\_Shipping\_Cost

from dbo.supplychain

group by Shipping\_carriers

order by Total\_Shipping\_Cost desc;



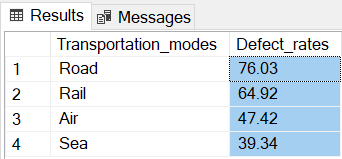
**## Defect Rates by Transportation Modes:**

select Transportation\_modes, sum(Defect\_rates) as Defect\_rates

from dbo.supplychain

group by Transportation\_modes

order by Defect\_rates desc;



**## Shipping Cost by Transportation Modes:**

select Transportation\_modes, sum(Shipping\_costs) as Total\_Shipping\_Cost

from dbo.supplychain

group by Transportation\_modes

order by Total\_Shipping\_Cost desc;

