

# SQL Report

Questions And Answering by Sql



## First Question: Total Of Revenue by Revenue

```
-----Total of Revenue by products-----  
select Product_type, sum(Revenue_generated) as 'Total Revenue'  
from supply_chain_data  
group by Product_type  
order by 'Total Revenue'
```

Results		Messages
	Product_type	Total Revenue
1	cosmetics	161521.265999483
2	hairecare	174455.390605462
3	skincare	241628.162133063

The Result show that the most profitable is **Skincare Products**

And the least profitable is **Cosmetics Products**

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## Second Question: Effect Of Gender on Products

```
-----Total of Product by Gender-----  
select Customer_demographics , count(Product_type) as 'Total Number Of products'  
from supply_chain_data  
group by Customer_demographics  
order by 'Total Number Of products'
```

Results		Messages
	Customer_demographics	Total Number Of products
1	Male	21
2	Non-binary	23
3	Female	25
4	Unknown	31

The Female is the most using of these products than Male, And the Unknown Customer is most than both.

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### Third Question: Products Across Locations

```
-----Products Accross Locations -----  
select Location ,Product_type,count(Product_type) as 'Total Number Of products'  
from supply_chain_data  
group by rollup (Location,Product_type)  
order by 'Total Number Of products'
```

	Location	Product_type	Total Number Of products
6	Chennai	haircare	6
7	Bangalore	skincare	6
8	Delhi	cosmetics	6
9	Mumbai	haircare	7
10	Mumbai	skincare	7
11	Mumbai	cosmetics	8
12	Kolkata	haircare	8
13	Bangalore	haircare	9
14	Chennai	skincare	9
15	Kolkata	skincare	13
16	Delhi	NULL	15
17	Bangalore	NULL	18
18	Chennai	NULL	20
19	Mumbai	NULL	22
20	Kolkata	NULL	25
21	NULL	NULL	100

The **Kolkata** is the most city of using products,

The **Delhi** is the least city of using products

### Fourth Question: Status Of Products

```
----- Status Of Products -----  
select Product_type,Inspection_results,count(Inspection_results) as 'Number Of Product Status'  
from supply_chain_data  
group by Product_type,Inspection_results  
order by 'Number Of Product Status'
```

	Product_type	Inspection_results	Number Of Product Status
1	cosmetics	Pass	6
2	haircare	Pass	6
3	cosmetics	Fail	10
4	cosmetics	Pending	10
5	skincare	Pass	11
6	haircare	Fail	13
7	skincare	Fail	13
8	haircare	Pending	15
9	skincare	Pending	16

The **skincare** is the most **Pending Product**, the **skincare** and **haircare** are the most **Fail** Products and **skincare** is the most **Pass** Products

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## Fifth Question: Total Cost Across Products

```
----- Total Cost Of Products -----  
select Product_type, sum(Costs) as 'Total Cost Of Product'  
from supply_chain_data  
group by Product_type  
order by 'Total Cost Of Product'
```

Results Messages		
	Product_type	Total Cost Of Product
1	cosmetics	13366.3972831576
2	haircare	17328.8628648875
3	skincare	22229.318067769

The **Skincare** is the highest in **Cost**, and **Cosmetics** is the least in **Cost**.

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## Sixth Question: Percentage Of Profit Across Products

```
----- Percentage Of Profit Across Products -----  
select Product_type, ((sum(Revenue_generated)-sum(Costs))/sum(Revenue_generated))*100 as 'Total Profit'  
from supply_chain_data  
group by Product_type  
order by 'Total Profit'
```

Results Messages		
	Product_type	Total Profit
1	haircare	90.0668802467231
2	skincare	90.8001956926166
3	cosmetics	91.7246826908845

The **Cosmetics** is the most **Profitable Product**

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## Seventh Question: Products Across Transportation Modes

```
----- Number Of Products Across Transportation Modes -----  
select Product_type, Transportation_modes, COUNT(*) as 'Number Of Products'  
from supply_chain_data  
group by Product_type, Transportation_modes
```

	Product_type	Transportation_modes	Number Of Products
1	cosmetics	Air	5
2	haircare	Air	8
3	skincare	Air	13
4	cosmetics	Rail	9
5	haircare	Rail	10
6	skincare	Rail	9
7	cosmetics	Road	6
8	haircare	Road	12
9	skincare	Road	11
10	cosmetics	Sea	6
11	haircare	Sea	4
12	skincare	Sea	7

**Air Mode:** the **Skincare Product** is the most transported.

**Rail Mode:** the **Haircare Product** is the most transported.

**Road Mode:** the **Haircare Product** is the most transported.

**Sea Mode:** the **Skincare Product** is the most transported.

**The Cosmetics Product** is more portable during the **Rail**.

**The Haircare Product** is more **Road** during the **Rail**.

**The Skincare Product** is more portable during the **Air**.

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*Thanks.....*