Project Power-BI

Project Name :-	supply chain analysis.
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Institute Name :-	Two Dimenssion.
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Data Gathering :

Product type	SKU	Price	Availability	Number of products sold	Revenue generated	Customer demographics	Stock levels	Lead times
haircare	SKU0	69.8080055421158	55	802	8661.99679239238	Non-binary	58	7
skincare	SKU1	14.8435232750843	95	736	7460.90006544585	Female	53	30
haircare	SKU2	11.3196832930906	34	8	9577.74962586873	Unknown	1	10
skincare	SKU3	61.1633430164377	68	83	7766.83642568523	Non-binary	23	13
skincare	SKU4	4.80549603634589	26	871	2686.50515156745	Non-binary	5	3
haircare	SKU5	1.69997601386594	87	147	2828.34874597576	Non-binary	90	27
skincare	SKU6	4.07833286310794	48	65	7823.47655953174	Male	11	15
cosmetics	SKU7	42.9583843824601	59	426	8496.10381308984	Female	93	17
cosmetics	SKU8	68.7175967485273	78	150	7517.36321063113	Female	5	10
skincare	SKU9	64.0157329412785	35	980	4971.14598758556	Unknown	14	27
skincare	SKU10	15.7077956819121	11	996	2330.96580209195	Non-binary	51	13
skincare	SKU11	90.6354599822887	95	960	6099.94411558145	Female	46	23
haircare	SKU12	71.2133890753601	41	336	2873.74144602144	Unknown	100	30
skincare	SKU13	16.16039331738	5	249	4052.73841623787	Male	80	8
skincare	SKU14	99.1713286386242	26	562	8653.5709264698	Non-binary	54	29
skincare	SKU15	36.9892449286269	94	469	5442.08678539767	Non-binary	9	8
skincare	SKU16	7.54717210979127	74	280	6453.79796817629	Female	2	5
cosmetics	SKU17	81.462534369237	82	126	2629.39643484526	Female	45	17
haircare	SKU18	36.4436277704609	23	620	9364.67350507617	Unknown	10	10
skincare	SKU19	51.1238700879647	100	187	2553.49558499121	Unknown	48	11
skincare	SKU20	96.3410724399634	22	320	8128.02769685119	Unknown	27	12
cosmetics	SKU21	84.8938689849508	60	601	7087.05269635744	Unknown	69	25
haircare	SKU22	27.679780886502	55	884	2390.80786655617	Unknown	71	1

Description	Type
▪ Product Type	Product type supply chain analysis focuses on examining the specific characteristics, demands, and logistical requirements of different types of products within a supply chain.

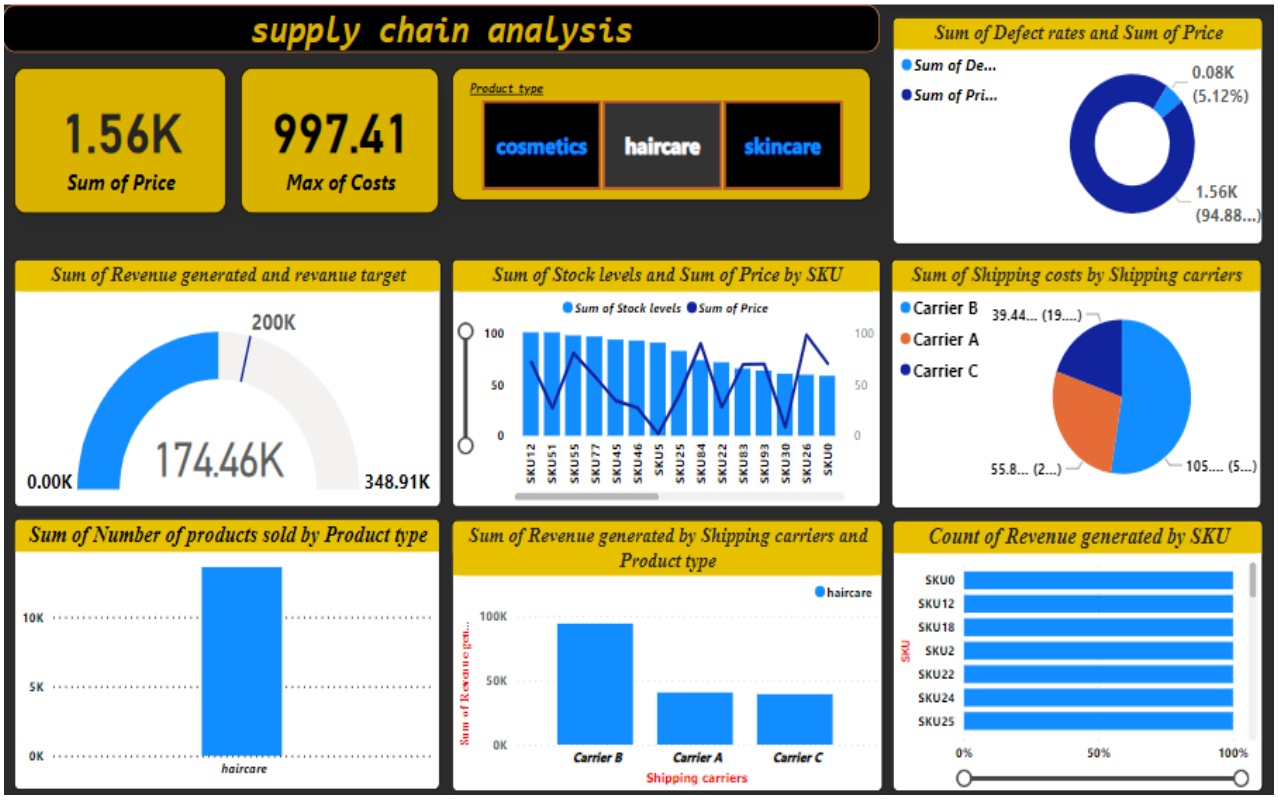
▪ SKU	SKU (Stock Keeping Unit) supply chain analysis involves analyzing the flow of individual product units within a supply chain.
▪ Price	Price supply chain analysis involves examining the impact of pricing strategies and decisions on the entire supply chain.
▪ Availability	Availability supply chain analysis focuses on assessing the ability of a supply chain to meet demand in terms of product availability.
▪ Number of products sold	The analysis of the number of products sold within a supply chain involves examining various aspects related to sales performance and distribution.
▪ Revenue generated	Revenue generated supply chain analysis involves evaluating the financial performance of the supply chain in terms of the revenue generated through sales.
▪ Customer demographics	Customer demographics supply chain analysis involves examining the characteristics and preferences of a company's target customer base within the context of the supply chain
▪ Stock levels	Stock level supply chain analysis involves evaluating the quantity of inventory held at various stages of the supply chain.
▪ Lead times	Lead time supply chain analysis involves evaluating the time it takes for products to move through the various stages of the supply chain, from order placement to delivery to the customer.
▪ Order quantities	Order quantities supply chain analysis involves examining the quantity of products ordered by customers or retailers within the supply chain.
▪ Shipping times	Shipping times supply chain analysis involves evaluating the time it takes for products to be transported from one point to another within the supply chain.
▪ Shipping carriers	Shipping carrier supply chain analysis involves evaluating the performance and effectiveness of shipping carriers within the supply chain.

▪ Shipping costs	Shipping cost supply chain analysis involves evaluating the expenses incurred during the transportation of goods within the supply chain.
▪ Supplier name	Supplier name supply chain analysis involves evaluating the performance, reliability, and strategic importance of suppliers within the supply chain.
▪ Location	Location supply chain analysis involves evaluating the geographic distribution of various supply chain components, such as suppliers, manufacturing facilities, distribution centers, and retail outlets.
▪ Production volumes	Production volume supply chain analysis involves evaluating the quantity of goods produced within the supply chain over a specific period.
▪ Manufacturing lead time	Manufacturing lead time supply chain analysis involves evaluating the time it takes to produce goods from the initiation of the manufacturing process to the completion of production.
▪ Manufacturing costs	Manufacturing cost supply chain analysis involves evaluating the expenses incurred during the production of goods within the supply chain.
▪ Inspection results ▪ Defect rates	Assessing the outcomes of quality inspections conducted at various stages of the supply chain. Evaluating the frequency and severity of defects found in products within the supply chain.
▪ Transportation modes	Transportation mode supply chain analysis involves evaluating the different modes of transportation used to move goods within the supply chain.
▪ Routes	Routes supply chain analysis involves evaluating the different routes used to transport goods within the supply chain network.
▪ Costs	By conducting cost supply chain analysis, companies can identify opportunities to reduce costs.

Question :

1. Sum of Number of products sold by Product type.
2. Sum of Revenue generated by Shipping carriers and Product type.
3. Count of Revenue generated by SKU.
4. Sum of Revenue generated and revanue target.
5. Sum of Stock levels and Sum of Price by SKU.
6. Sum of Shipping costs by Shipping carriers.
7. Sum of Defect rates and Sum of Price.
8. product type.
9. max cost.
10. sum of price.
11. Sum of Costs by Transportation modes.
12. Average of Defect rates by Product type.
13. Sum of Defect rates by Location.
14. Count of Transportation modes by Inspection results.
15. Sum of Price by Product type.
16. Sum of Production volumes by Lead time and Product type.

Dashboard :-


supply chain analysis
1.56K
Sum of Price
997.41
Max of Costs
Product type
cosmetics
haircare
skincare
Sum of Defect rates and Sum of Price
Sum of De...
Sum of Pri...
0.08K
(5.12%)
1.56K
(94.88...)
Sum of Revenue generated and revanue target
200K
174.46K
0.00K
348.91K
Sum of Stock levels and Sum of Price by SKU
Sum of Stock levels
Sum of Price
100
50
0
SKU12
SKU51
SKU55
SKU77
SKU45
SKU46
SKU5
SKU25
SKU84
SKU22
SKU83
SKU93
SKU30
SKU26
SKU0
Sum of Shipping costs by Shipping carriers
Carrier B
Carrier A
Carrier C
39.44... (19....)
55.8... (2...)
105.... (5...)
Sum of Number of products sold by Product type
10K
5K
0K
haircare
Sum of Revenue generated by Shipping carriers and Product type
haircare
100K
50K
0K
Sum of Revenue gen...
Carrier B
Carrier A
Carrier C
Shipping carriers
Count of Revenue generated by SKU
SKU0
SKU12
SKU18
SKU2
SKU22
SKU24
SKU25
SKU
0%
50%
100%


Sum of Production volumes by Lead time and Product type
Product type cosmetics haircare skincare
Sum of Producti...
4K
2K
0K
0
5
10
15
20
25
30
Lead time
Sum of Price by Product type
Increase Decrease Total
5K
4K
3K
2K
1K
0K
Sum of Price
skincare
haircare
cosmetics
Total
Product type
Sum of Defect rates by Location
33.429... (14.68...)
57.14... (25.0...)
3... (...)
46.691... (20.5%)
52.76... (23....)
Location
Kolkata
Chennai
Mumbai
Bangalore
Delhi
Count of Transportation modes by Inspection results
Count of Transportation modes
40
20
0
Pending
Fail
Pass
Inspection results
Sum of Costs by Transportation modes
100%
Road
16.05K
Rail
15.17K
Air
14.60K
Sea
7.10K
44.3%
Average of Defect rates by Product type
1.91928... (28.49%)
2.4831... (36.8...)
2.334680... (34.65%)
Product type
haircare
skincare
cosmetics