

# Internship Weekly Report

Date: 20-01-2025

Day: Monday

## Daily Task Report

### Task performed:

- Loaded the provided dataset into power BI.

### Steps taken:

- Imported the given dataset into power BI.
- Created duplicates of the main dataset to separate it into specific tables.
- Named the new tables as:
  - Inventory Table :  
Retained columns relevant to inventory data.

	Product type	SKU	Availability	Number of products sold	Revenue generated	Customer demographics	Stock level
1	haircare	SKU0	33	802	8003.996792	Non-binary	
2	skincare	SKU1	99	728	7460.900063	Female	
3	haircare	SKU2	94	8	9577.748026	Unknown	
4	skincare	SKU3	69	83	7766.836426	Non-binary	
5	skincare	SKU4	26	873	2680.903152	Non-binary	
6	haircare	SKU5	87	247	2828.348746	Non-binary	
7	skincare	SKU6	48	65	7823.47656	Male	
8	cosmetics	SKU7	59	426	8496.103813	Female	
9	cosmetics	SKU8	78	150	7517.363711	Female	
10	skincare	SKU9	35	980	4971.145988	Unknown	
11	skincare	SKU10	17	996	2330.605802	Non-binary	
12	skincare	SKU11	93	960	0599.844136	Female	
13	haircare	SKU12	41	336	7873.761446	Unknown	
14	skincare	SKU13	5	249	4652.738416	Male	
15	skincare	SKU14	26	562	8633.57026	Non-binary	
16	skincare	SKU15	94	409	5442.086793	Non-binary	
17	skincare	SKU16	74	280	6433.797968	Female	
18	cosmetics	SKU17	82	226	2629.896435	Female	
19	haircare	SKU18	23	620	9384.673505	Unknown	
20	skincare	SKU19	100	187	2553.495585	Unknown	
21	skincare	SKU20	22	320	6128.027697	Unknown	
22	cosmetics	SKU21	60	601	7087.052696	Unknown	
23	haircare	SKU22	53	884	2390.807807	Unknown	
24	cosmetics	SKU23	30	791	8858.387571	Unknown	
25	haircare	SKU24	82	209	9049.077961	Male	
26	haircare	SKU25	73	142	2174.777054	Male	
27	haircare	SKU26	9	858	3710.498326	Male	
28	cosmetics	SKU27	42	252	2686.457224	Unknown	
29	cosmetics	SKU28	12	894	0117.824915	Female	
30	cosmetics	SKU29	3	253	8318.903295	Female	
31	haircare	SKU30	10	327	2766.342367	Male	
32	skincare	SKU31	28	258	9635.125107	Male	

Fig: Inventory Table

- **Manufacturing Table :**  
Kept columns related to manufacturing data.

Figure 1: Manufacturing Table

Product type	SKU	Production volumes	Manufacturing lead time	Manufacturing costs	Inspection results	Defect levels
haircare	SKU0	235	29	46.27987924	Pending	0.226
haircare	SKU1	517	20	33.61678805	Pending	4.854
haircare	SKU2	973	27	83.68801935	Pending	4.580
haircare	SKU3	997	18	85.6247414	Fail	4.746
haircare	SKU4	414	9	92.0651609	Fail	3.165
haircare	SKU5	304	17	56.76847596	Fail	2.779
cosmetics	SKU6	214	24	1.26939857	Pending	1.000
cosmetics	SKU7	566	1	99.4661086	Fail	0.309
cosmetics	SKU8	769	8	11.42302711	Pending	2.709
skincare	SKU9	963	23	47.95765163	Pending	3.844
skincare	SKU10	830	5	96.5275279	Pass	1.727
skincare	SKU11	362	11	27.59236309	Pending	0.021
skincare	SKU12	568	8	82.62128021	Fail	2.161
skincare	SKU13	173	10	97.82905011	Pending	1.63
skincare	SKU14	558	14	5.76242683	Pending	0.100
skincare	SKU15	580	7	91.21191175	Pass	2.194
skincare	SKU16	399	21	77.1064425	Pass	1.012
cosmetics	SKU17	453	16	47.67968037	Fail	0.102
haircare	SKU18	374	17	27.10798085	Pending	2.231
skincare	SKU19	694	16	82.37381059	Fail	3.646
skincare	SKU20	209	6	65.68625961	Pass	4.232
cosmetics	SKU21	791	4	61.73572895	Pending	0.018
haircare	SKU22	760	29	50.12089161	Fail	2.591
cosmetics	SKU23	568	29	98.60995724	Pending	1.342
haircare	SKU24	447	3	40.3823507	Pending	3.691
haircare	SKU25	934	28	78.28038812	Pending	8.797
haircare	SKU26	171	4	15.97222976	Pass	2.119
cosmetics	SKU27	291	4	10.52824507	Fail	2.864
cosmetics	SKU28	171	7	39.42938181	Fail	0.813
cosmetics	SKU29	829	7	89.2967039	Pass	3.676
haircare	SKU30	806	30	51.6486864	Pending	0.365
skincare	SKU31	491	8	60.25114565	Pending	2.589

Fig: Manufacturing Table

- **Supplier Table:**  
Included only supplier-specific columns.

Figure 2: Supplier Table

Supplier name	Location	Lead time	Transportation modes	Routes
Supplier-3	Mumbai	29	Road	Route B
Supplier-3	Mumbai	29	Road	Route B
Supplier-1	Mumbai	22	Air	Route C
Supplier-5	Kolkata	24	Rail	Route A
Supplier-1	Delhi	5	Air	Route A
Supplier-4	Bangalore	10	Road	Route A
Supplier-3	Kolkata	24	Sea	Route A
Supplier-4	Bangalore	22	Road	Route C
Supplier-4	Mumbai	23	Sea	Route B
Supplier-2	Chennai	29	Rail	Route B
Supplier-5	Kolkata	28	Road	Route B
Supplier-2	Kolkata	28	Air	Route A
Supplier-4	Kolkata	9	Road	Route B
Supplier-5	Bangalore	23	Road	Route B
Supplier-1	Kolkata	25	Air	Route B
Supplier-1	Bangalore	24	Sea	Route B
Supplier-1	Bangalore	3	Air	Route A
Supplier-1	Chennai	7	Air	Route C
Supplier-2	Kolkata	28	Sea	Route A
Supplier-6	Chennai	20	Road	Route C
Supplier-1	Chennai	29	Air	Route B
Supplier-5	Chennai	19	Air	Route C
Supplier-4	Kolkata	22	Rail	Route C
Supplier-5	Kolkata	11	Rail	Route A
Supplier-2	Bangalore	28	Air	Route A
Supplier-4	Kolkata	19	Road	Route B
Supplier-2	Bangalore	29	Rail	Route A
Supplier-5	Mumbai	25	Sea	Route B
Supplier-1	Mumbai	18	Air	Route A
Supplier-1	Kolkata	16	Road	Route B
Supplier-4	Kolkata	27	Road	Route C
Supplier-3	Chennai	24	Rail	Route C

Fig: Supplier Table

- Supply Chain Table:  
Focused on columns related to the overall supply chain.

Table: RemoveColumns(\*Changed Type\*, ("Production volumes", "Manufacturing lead time", "Manufacturing costs", "Inspection results", "Defect rates"))

Customer demographics	Stock levels	Lead times	Order quantities	Shipping times	Shipping carriers	Defect rates
1 Non-binary	58	7	96	4	Carrier B	
2 Female	59	30	27	2	Carrier A	
3 Unknown	1	10	88	2	Carrier B	
4 Non-binary	23	13	59	6	Carrier C	
5 Non-binary	5	3	56	8	Carrier A	
6 Non-binary	90	27	66	3	Carrier B	
7 Male	11	15	58	8	Carrier C	
8 Female	99	17	11	1	Carrier B	
9 Female	5	10	25	7	Carrier C	
10 Unknown	24	27	83	1	Carrier A	
11 Non-binary	32	13	80	2	Carrier C	
12 Female	48	23	60	1	Carrier A	
13 Unknown	200	30	85	4	Carrier A	
14 Male	80	8	48	9	Carrier A	
15 Non-binary	34	29	78	5	Carrier B	
16 Non-binary	9	8	69	7	Carrier B	
17 Female	2	5	78	1	Carrier B	
18 Female	45	17	85	9	Carrier C	
19 Unknown	10	10	46	8	Carrier C	
20 Unknown	48	11	94	3	Carrier A	
21 Unknown	27	12	68	6	Carrier A	
22 Unknown	69	25	7	6	Carrier B	
23 Unknown	71	1	63	10	Carrier A	
24 Unknown	84	5	29	7	Carrier A	
25 Male	4	26	2	8	Carrier C	
26 Male	82	11	52	3	Carrier C	
27 Male	59	16	48	4	Carrier B	
28 Unknown	47	9	62	8	Carrier C	
29 Female	48	15	24	4	Carrier B	
30 Female	45	5	67	7	Carrier B	
31 Male	60	26	35	7	Carrier B	
32 Male	6	17	64	4	Carrier B	

Fig: Supply Chain Table

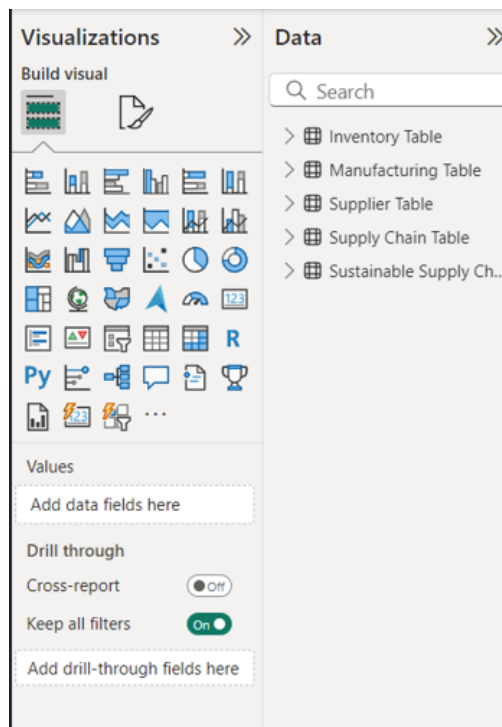


Fig: Power Bi Interface After Creating Tables

**Purpose of the Task:**

- To organise the data into separate tables for better analysis and visualization of key performance indicators related to inventory, manufacturing, suppliers, and supply chain.

**Learnings/Outcomes:**

- Learned how to manage large datasets in Power BI by creating and customizing separate tables.