## SUPPLY CHAIN ANALYSIS

A	В	C	D	E	F	G	Н	- 1	J	K	L
roduct type	SKU	Price	Availability Nu	imber of products sold	Revenue generated	Customer demographics	Stock levels	Lead times	Order quantities	Shipping times	Shipping carr
aircare	SKUO	69.80800554	55	802	8661.996792	Non-binary	58	7	9	96	4 Carrier B
incare	SKU1	14.84352328	95	736	7460.900065	Female	53	30	3	37	2 Carrier A
aircare	SKU2	11.31968329	34	8	9577.749626	Unknown	1	10		88	2 Carrier B
kincare	SKU3	61.16334302	68	83	7766.836426	Non-binary	23	13	5	9	6 Carrier C
kincare	SKU4	4.805496036	26	871	2686.505152	Non-binary	5	3	5	66	8 Carrier A
aircare	SKU5	1.699976014	87	147	2828.348746	Non-binary	90	27	6	66	3 Carrier B
kincare	SKU6	4.078332863	48	65	7823.47656	Male	11	15	5	8	8 Carrier C
osmetics	SKU7	42.95838438	59	426	8496.103813	Female	93	17	1	1	1 Carrier B
osmetics	SKU8	68.71759675	78	150	7517.363211	Female	5	10	1	.5	7 Carrier C
kincare	SKU9	64.01573294	35	980	4971.145988	Unknown	14	27		33	1 Carrier A
kincare	SKU10	15.70779568	11	996	2330.965802	Non-binary	51	13	8	80	2 Carrier C
kincare	SKU11	90.63545998	95	960	6099.944116	Female	46	23	6	50	1 Carrier A
aircare	SKU12	71,21338908	41	336	2873.741446	Unknown	100	30		35	4 Carrier A
kincare	SKU13	16.16039332	5	249	4052,738416	Male	80		4	18	9 Carrier A
kincare	SKU14	99.17132864	26	562	8653.570926	Non-binary	54	29	,	18	5 Carrier B
kincare	SKU15	36,98924493	94	469	5442.086785		9	8		9	7 Carrier B
kincare	SKU16	7.54717211	74	280	6453.797968		2			18	1 Carrier B
cosmetics	SKU17	81.46253437	82	126	2629.396435		45	17		35	9 Carrier C
naircare	SKU18	36.44362777	23	620	9364.673505		10	10		16	8 Carrier C
kincare	SKU19	51.12387009	100	187	2553 495585		48	11		14	3 Carrier A
kincare	SKU20	96.34107244		320	8128.027697		27	12		58	6 Carrier A
cosmetics	SKU21	84.89386898	60	601	7087.052696		69	25		7	6 Carrier B
naircare	SKU22	27.67978089	55	884	2390.807867		71	1			10 Carrier A
nsmetics	SKU22	4.324341186	30	391	8858.367571		84			10	7 Carrier A
	211023									2	, comment
naircare	SKU24	4.156308359		209	9049.077861	100	4	26		-	8 Carrier C
naircare	SKU25	39.62934399	73	142	2174.777054		82	11		52	3 Carrier C
haircare	SKU26	97.44694662	9	353	3716.493326		59	16		18	4 Carrier B
cosmetics	SKU27	92.55736081	42	352	2686.457224		47	9		52	8 Carrier C
cosmetics	SKU28	2.397274706		394	6117.324615	A CONTRACTOR OF THE CONTRACTOR	48	15		14	4 Carrier B
cosmetics	SKU29	63.44755919		253	8318.903195		45	5		57	7 Carrier B
haircare	SKU30	8.022859211	10	327	2766.342367		60	26		15	7 Carrier B
kincare	SKU31	50.84739305	28	168	9655.135103		6	17		14	4 Carrier B
kincare	SKU32	79.20993602	43	781	9571.550487		89	13		54	4 Carrier C
cosmetics	SKU33	64.795435	63	616	5149.99835	,	4	17		95	9 Carrier C
kincare	SKU34	37.46759233		602	9061.710896		1	26		!1	7 Carrier A
cosmetics	SKU35	84.95778682	11	449	6541.329345		42	27		85	8 Carrier C
kincare	SKU36	9.813002579	34	963	7573.402458		18	23		28	3 Carrier B
kincare	SKU37	23.39984475		963	2438.33993		25	8		1	9 Carrier A
osmetics	SKU38	52.07593068	75	705	9692.31804	Non-binary	69	1		88	5 Carrier B
kincare	SKU39	19.12747727	26	176	1912.465663	Female	78	29	3	14	3 Carrier A
kincare	SKU40	80.54142417	97	933	5724.95935	Female	90	20	3	9	8 Carrier C
kincare	SKU41	99.11329162	35	556	5521.205259	Female	64	19		8	8 Carrier B
kincare	SKU42	46.52916761	98	155	1839.609426	Female	22	27		57	4 Carrier C
aircare	SKU43	11.74327178	6	598	5737.425599	Unknown	36	29		85	9 Carrier B
osmetics	SKU44	51.35579091	34	919	7152.286049	Female	13	19	7	72	6 Carrier C
aircare	SKU45	33.78413803	1	24	5267.956808	Male	93	7	-	52	6 Carrier B
aircare	SKU46	27.0822072	75	859	2556.767361		92	29		6	8 Carrier B
kincare	SKU47	95.71213588		910	7089.47425		4	15		31	9 Carrier B
aircare	SKU48	76.03554443	28	29	7397.071005		30	16		9	3 Carrier C
osmetics	SKU49	78.89791321	19	99	8001.613207		97	24		9	6 Carrier C
osmetics	SKU50	14.20348426		633	5910.88539		31	23			10 Carrier A
aircare	SKU51	26 70076097	61	154	9866 465458		100	4		52	1 Carrier A
		98.03182966	-		3000.403430	Williams.					2 Cultivat A
kincare kincare	SKU52 SKU53	98.03182966	93	820 242	9435.762609 8232.334829		64 96	25		1 4	1 Carrier B 3 Carrier B

## SUPPLY CHAIN ANALYSIS

M	N	0	Р	Q	R	S	Т	U	٧	W	X
hipping costs	Supplier name	Location	Lead time	Production volumes	Manufacturing lead time	Manufacturing costs	Inspection results	Defect rates	Transportation modes	Routes	Costs
2.95657213	89 Supplier 3	Mumbai	29	215	2	9 46.2798792	4 Pending	0.22641036	1 Road	Route B	187.752075
9.716574771 Supplier 3		Mumbai	23	511	3	33.6167689	5 Pending	4.85406802	6 Road	Route B	503.065579
8.05447926	8.054479262 Supplier 1		12	97:	. 2	7 30.6880193	5 Pending	4.58059261	9 Air	Route C	141.920281
1.72956856	1.729568564 Supplier 5		24	937	1	8 35.624741	4 Fail	4.74664862	1 Rail	Route A	254.776159
3.890547916 Supplier 1		Delhi	5	414		92.065160	6 Fail	3.14557952	3 Air	Route A	923.440631
4.44409886	4.444098864 Supplier 4		10	104	1	7 56.7664755	6 Fail	2.77919351	2 Road	Route A	235.461236
3.88076330	3 Supplier 3	Kolkata	14	314	2	4 1.0850685	7 Pending	1.00091061	9 Sea	Route A	134,369096
2.34833878	84 Supplier 4	Bangalore	22	564		99.466108	6 Fail	0.39817718	7 Road	Route C	802.056311
3.40473385	57 Supplier 4	Mumbai	13	769		8 11,4230271	4 Pending	2.70986269	1 Sea	Route B	505,557134
	7.166645291 Supplier 2		29	963	2	3 47.9576016	3 Pending	3.84461447	9 Rail	Route B	995,929461
8.67321121	8.673211211 Supplier 5		18	830		5 96,5273527	9 Pass	1.72731392	8 Road	Route B	806.103177
	24 Supplier 2	Kolkata	28	36	1	1 27.5923630	9 Pending	0.02116982	1 Air	Route A	126.723033
	01 Supplier 4	Kolkata	3		_	3 32.3212862		2.16125374		Route B	402.968789
	51 Supplier 5	Bangalore	23					1.6310742		Route B	547.241005
2.03977018	- 11	Kolkata	25	-	_			0.10068285		Route B	929.2352
	23 Supplier 1	Bangalore	14			7 97.1212817		2.26440576		Route B	127.861
	36 Supplier 1	Bangalore	3					1.01256308		Route A	865,525779
	58 Supplier 1	Chennai	7		_			0.10202075		Route C	670.934390
	14 Supplier 2	Kolkata	18					2.23193911		Route A	593,480258
	33 Supplier 4	Chennai	20		_			3.64645086		Route C	477.307631
	S1 Supplier 1	Chennai	29		_	65.6862596		4.23141657		Route B	493.871215
	59 Supplier 5	Chennai	19			4 61.7357289		0.01860756	7.700	Route C	523,360914
	21 Supplier 4	Kolkata	22					2.59127547		Route C	205.571995
	1 Supplier 4	Kolkata	11		-			1.34229156		Route C	196,329446
			28			98.6099572 3 40.382359		3.69131029		Route A	758.724772
	89 Supplier 2 81 Supplier 4	Bangalore Kolkata	19					3.79723121		Pourte R	458.535945
	21 Supplier 2		26		_	4 15.9722297		2.11931973		Route A	617.866916
	33 Supplier 5	Bangalore	25			4 15.9/2229/ 4 10.5282450	District Control	2.86466783	and the same of th		762,459182
		Mumbai Mumbai	13			4 10.5282450 7 59.4293818		0.81575707		Route B	123.437027
	08 Supplier 1								- 1	Route A	
	15 Supplier 1	Kolkata	16			7 39.2928755		3.87809893		Route B	764.935375
	L5 Supplier 4	Kolkata	27		_			0.96539470		Route C	880.080988
	55 Supplier 3	Chennai Kolkata	24			60.2511456	-	2.98900000		Route C	609.379206
	6.599104901 Supplier 3		30	17		7 29.6924671		1.94603611 3.54104601	-	Route A	761.173909
	4.858270503 Supplier 5		1				23.85342751 Fail			Route A	371.255295
	1.019487571 Supplier 1		4		-			0.64660455		Route B	510.358000
	5.28818999 Supplier 1		3	100		2 58.0047870		0.54115409		Route C	553.420471
	57 Supplier 2	Delhi	26					3.80553337		Route C	403.808974
	74 Supplier 3	Kolkata	24		_			2.61028808		Route A	183.93296
	37 Supplier 5	Mumbai	10		_			0.61332689		Route B	339.672869
	79 Supplier 2	Kolkata	30			9.00580742	9 Fail	1.45197220	- Pun	Route B	653.672994
	14 Supplier 1	Kolkata	18			1 88.179407		4.21326943		Route A	529.80872
5.77326374	14 Supplier 4	Chennai	18	892		7 95.3320645	5 Fail	0.04530226	2 Sea	Route A	275.524371
7.52624832	27 Supplier 5	Bangalore	26	179		7 96.4228206	4 Fail	4.93925528	9 Road	Route A	635.657120
3.69402126	58 Supplier 5	Mumbai	1	200	2	3 26.2773659	6 Pending	0.37230476	8 Air	Route A	716.044119
7.57744965	57 Supplier 2	Delhi	7	834	1	8 22.5541066	2 Fail	2.9626263	2 Rail	Route A	610.453269
5.21515500	09 Supplier 2	Chennai	25	794	2	5 66.3125444	4 Pass	3.21960461	2 Rail	Route A	495.30569
4.07095583	37 Supplier 3	Chennai	18	870	2	77.3223532	1 Pending	3.64861059	3 Road	Route B	380.435937
8.978750756 Supplier 1		Kolkata	10	964	2	19.7129929	1 Pending	0.38057358	7 Rail	Route A	581.602355
7.09583315	7.095833157 Supplier 2		9	109	1	8 23.1263635	8 Fail	1.69811254	1 Rail	Route B	768.65191
2.505621033 Supplier 5		Delhi	28	177	2	8 14.1478154	4 Pass	2.82581398	5 Rail	Route A	336.890168
6.24786091	15 Supplier 2	Delhi	20	300	2	45.1787579	2 Fail	4.75480080	5 Rail	Route B	496.248650
4.78300055	58 Supplier 5	Bangalore	18	673	2	8 14.1903283	4 Pending	1.77295117	2 Road	Route A	694.982317
	18 Supplier 1	Mumbai	10					2.12247161	- CO. Co	Route C	602.898498
	SE Cunnier 1	Delhi	1	43	1	7 83 3440580	O Danding	1 /103/757	6 Air	Dourte R	750 737840