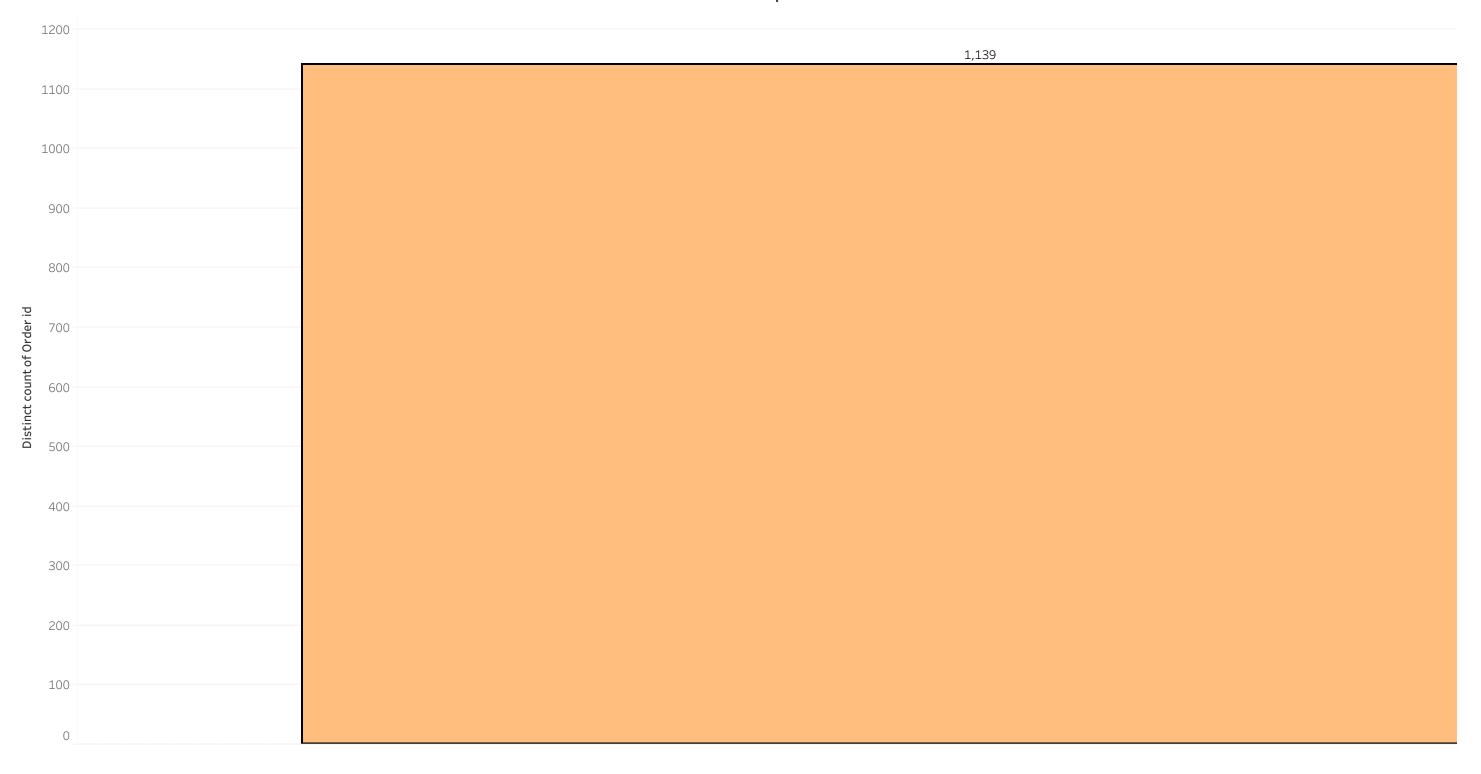
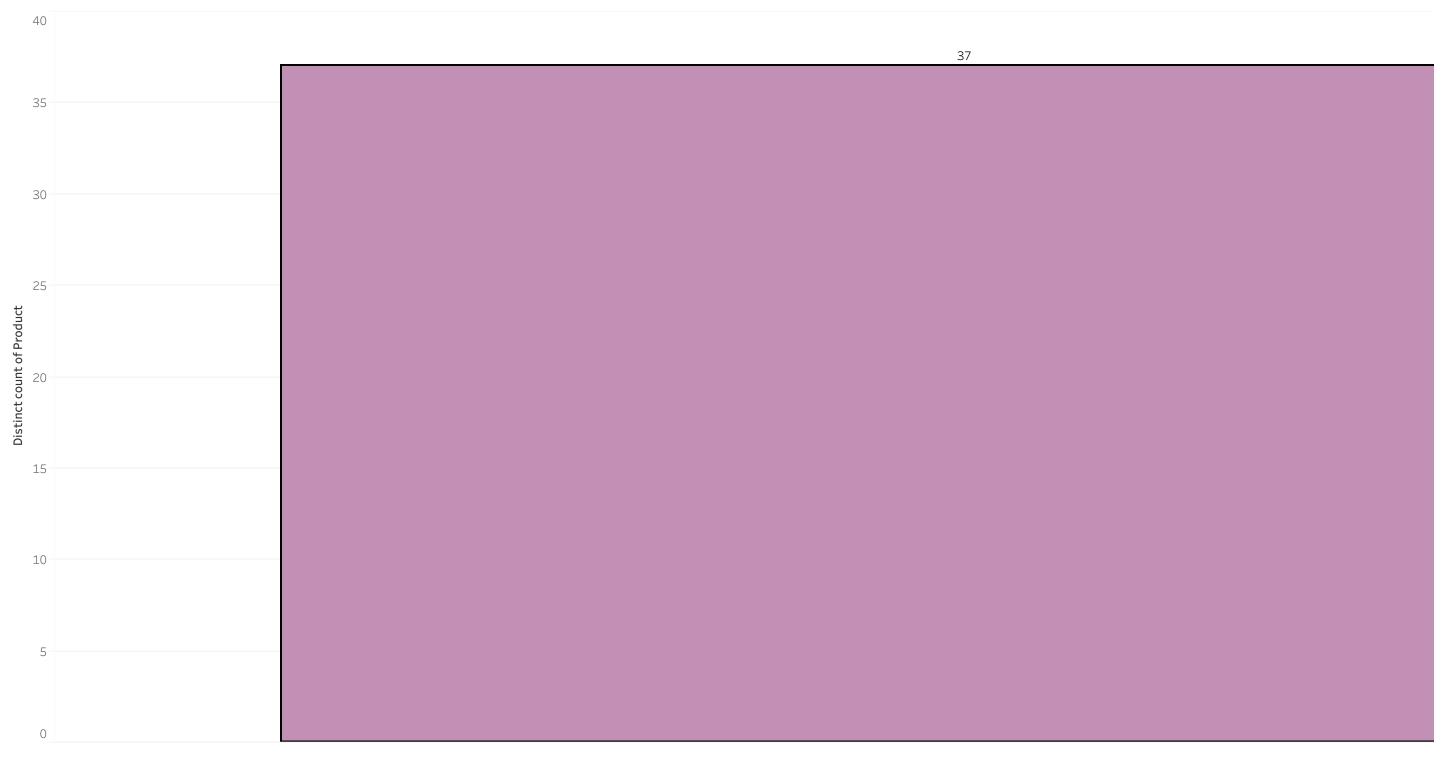
Total number of unique transactions

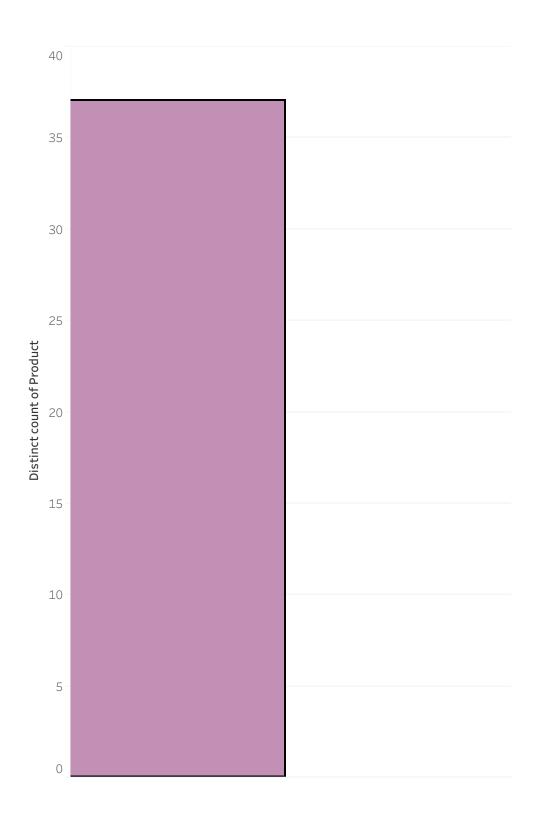


Distinct count of Order id

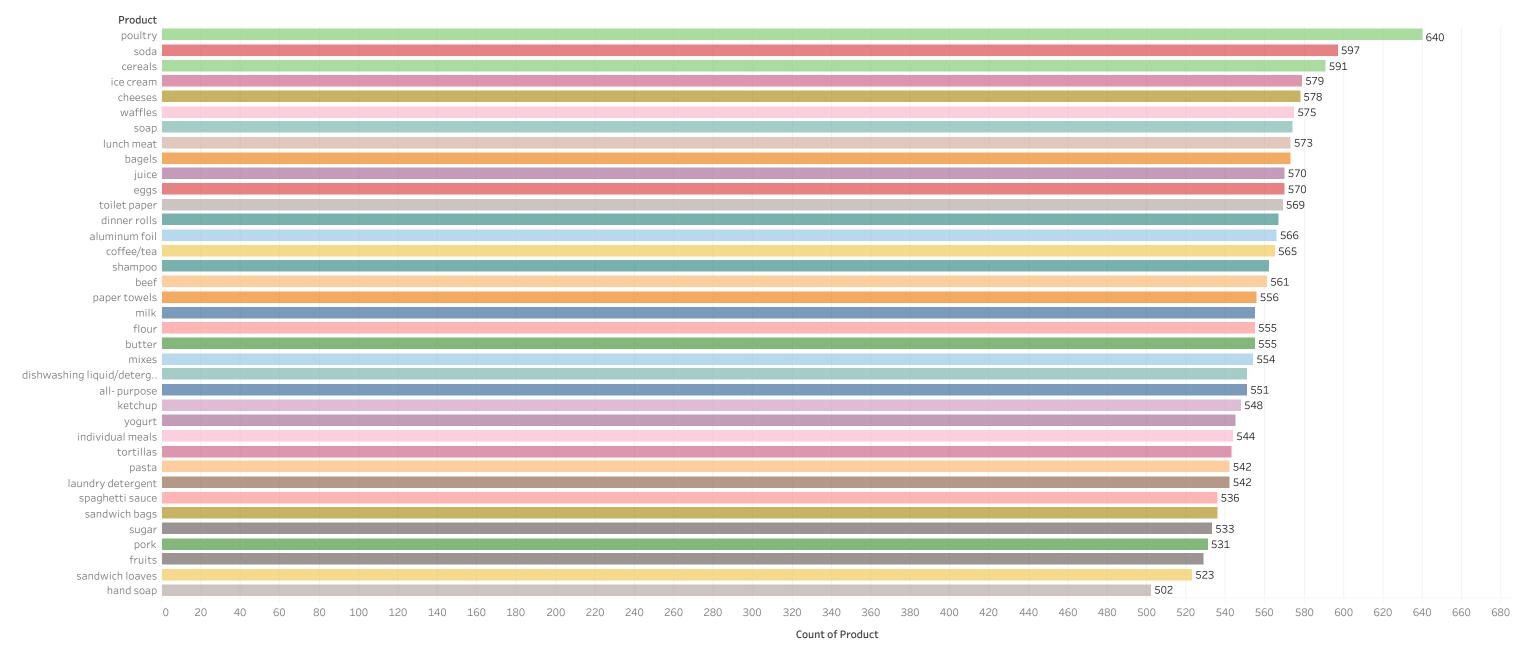
Total number of unique transactions



Total unique products sold



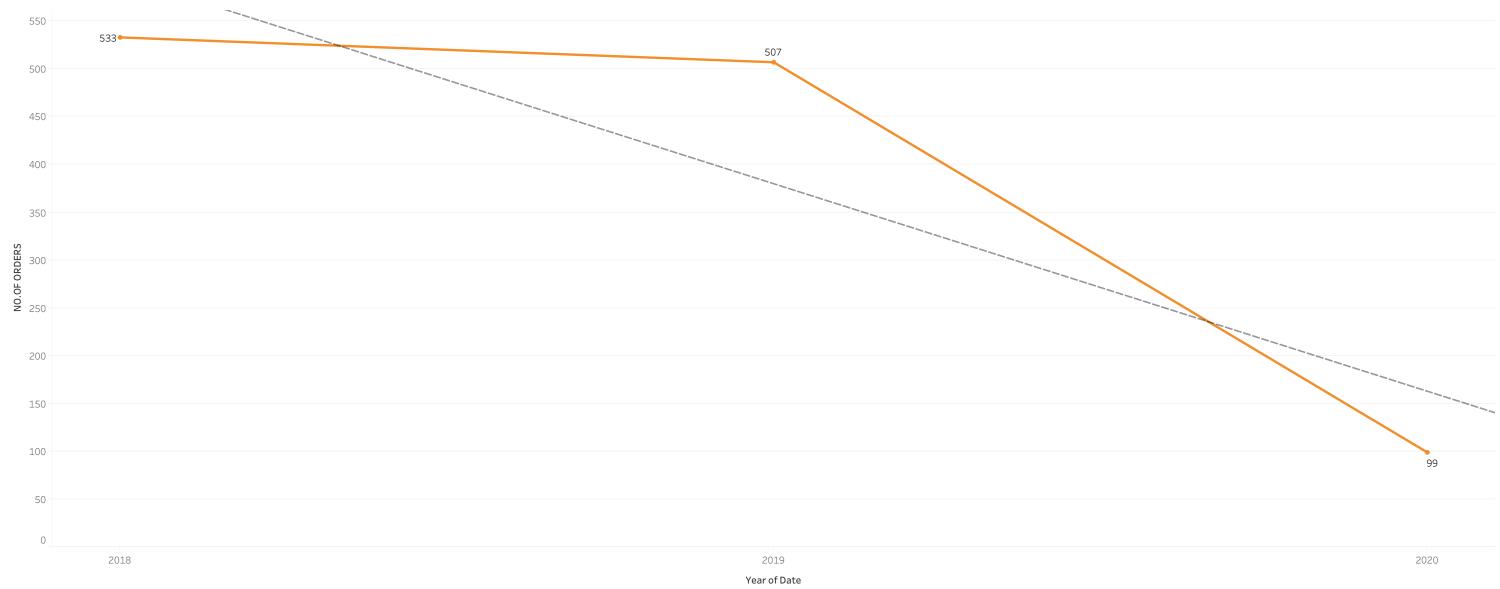
Top-Selling Products



Distribution of Orders Per Day



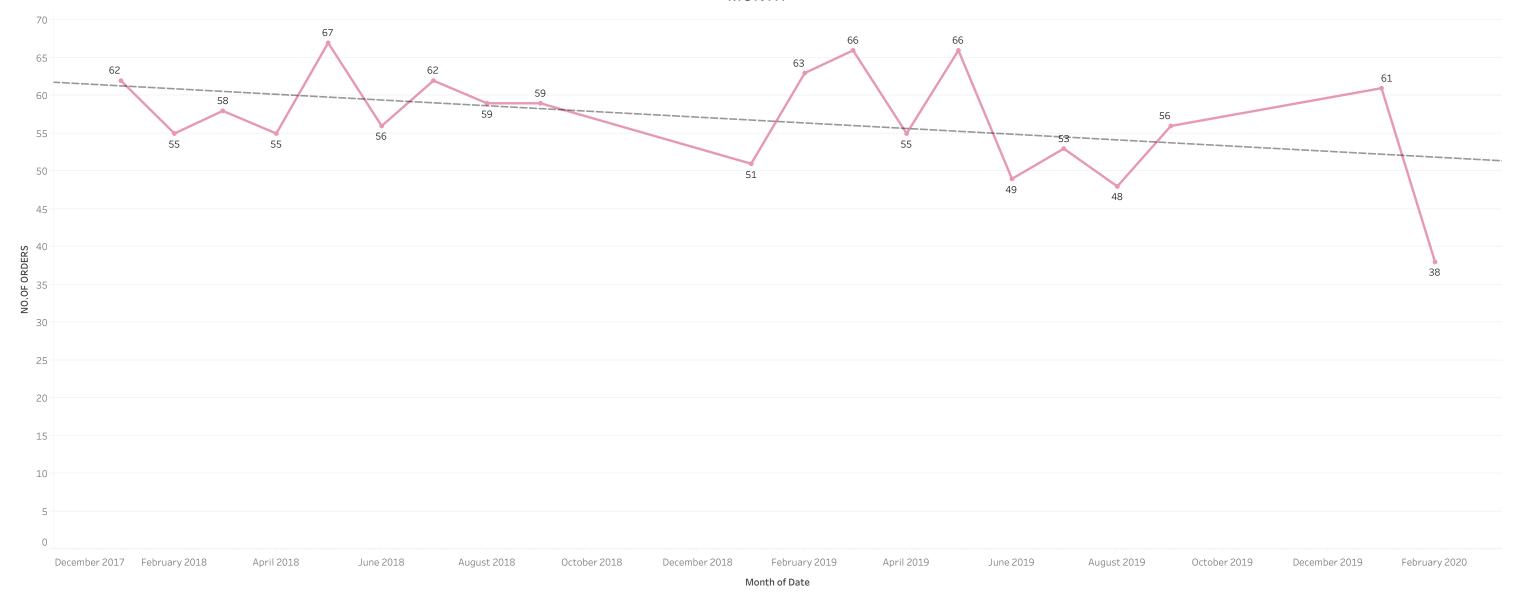


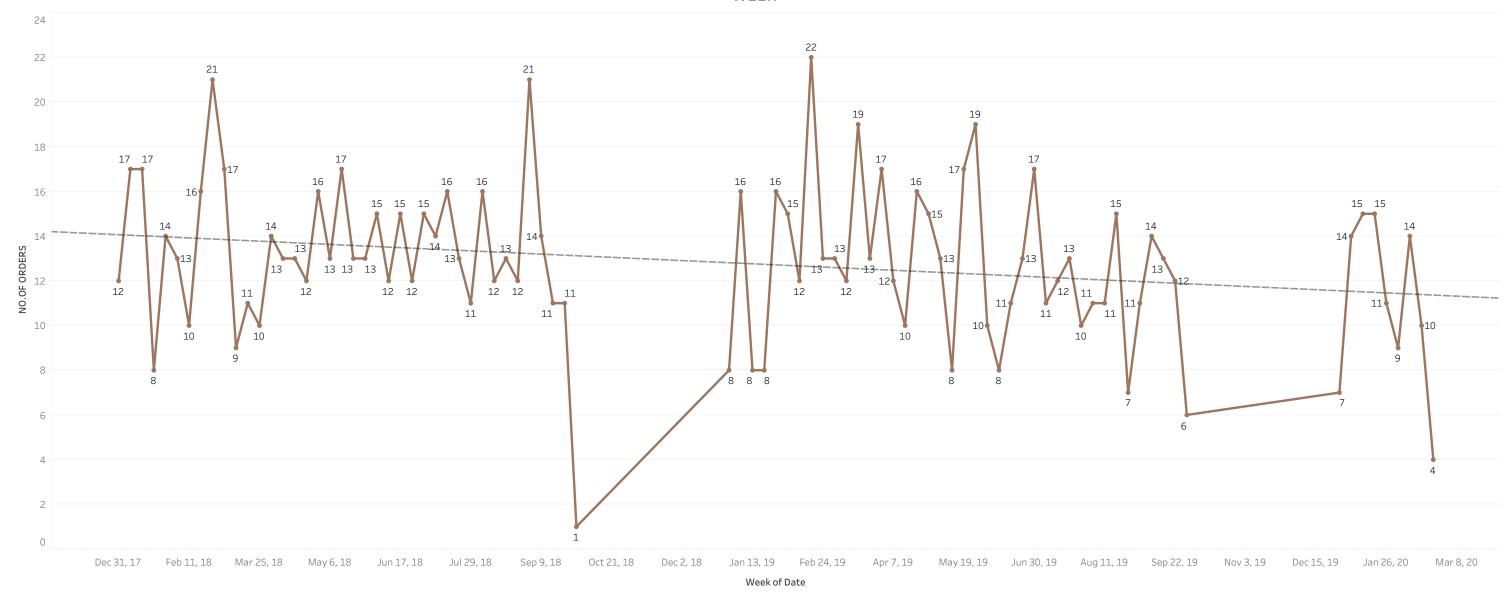


QUARTER

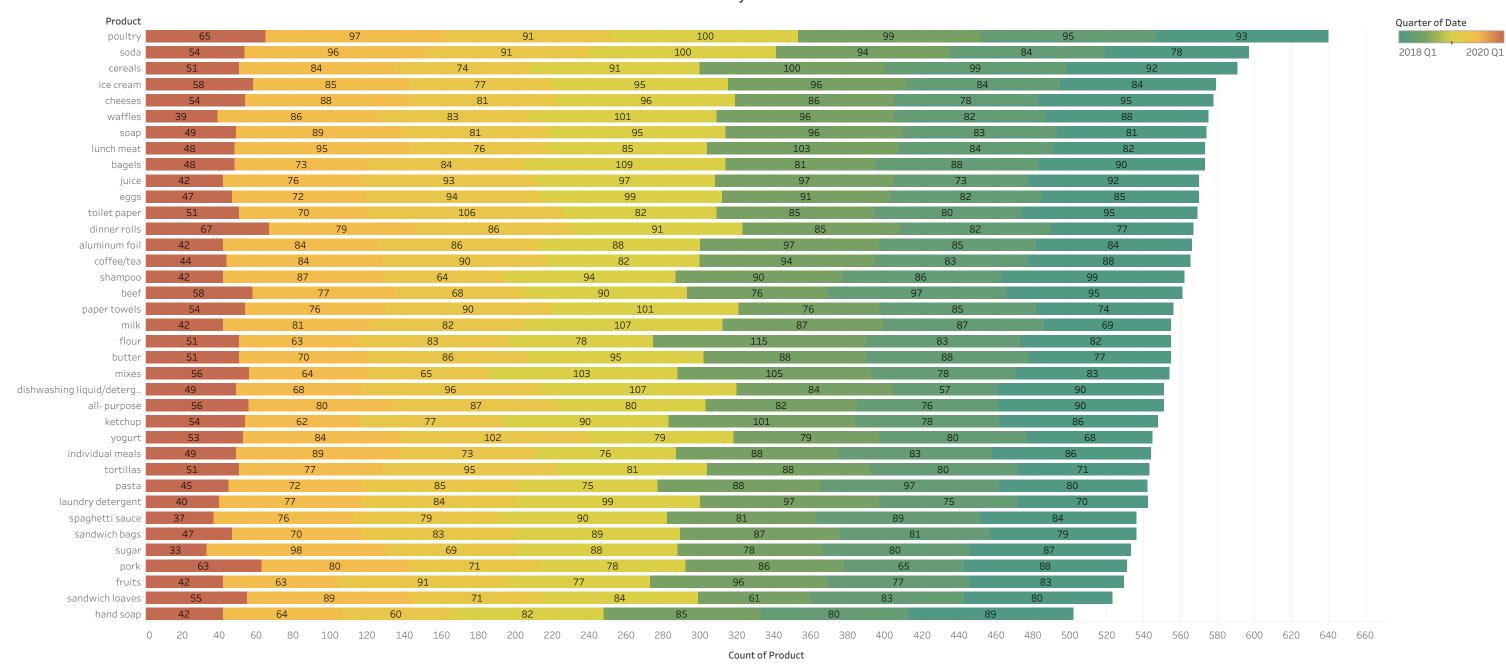


MONTH





Product Demand by Season



Heatmap to Visualize Product Associations

Consequent

Lift

0.9295

1.2343

all-purp.. aluminu.. bagels beef butter cereals cheeses coffee/teadinner ro.. dishwas.. eggs flour fruits hand soap ice cream individu.. juice ketchup laundry .. lunch me.. milk Items 1.0307 1.0130 1.0312 1.0658 1.0749 1.0809 1.0494 0.9909 1.1099 1.1450 1.0788 1.0390 1.0695 1.0173 1.0517 1.0657 all-purpose 1.1373 1.1084 1.0427 1.1278 1.0895 1.1094 1.0649 1.0484 1.1385 1.1092 1.0428 1.1513 1.1240 1.1881 1.1066 1.0575 1.0990 1.0901 aluminum f.. 1.0390 1.0816 1.0713 1.0643 1.1136 1.0390 1.0366 1.1161 1.0004 1.1743 0.9878 1.0401 1.1189 1.1041 1.0474 1.0378 bagels 1.1084 1.1103 1.1162 1.0307 1.0816 0.9295 1.1356 0.9941 1.0598 1.0803 1.1174 1.0219 1.1947 1.0811 1.0470 1.1006 0.9964 1.0670 1.1274 beef 1.0427 1.0713 0.9295 1.0307 1.1118 1.0257 1.0616 1.0455 1.1082 1.0481 1.0371 1.0349 1.0478 1.0670 1.0645 1.0475 1.1353 1.0994 0.9982 1.0695 butter 1.0643 1.1356 1.1294 1.1283 1.1117 1.1028 1.1319 1.0492 1.1012 1.0128 1.0514 1.0739 1.0479 1.0090 1.1309 1.0775 1.1548 1.0173 1.0307 cereals 1.1278 1.1136 1.1294 1.1317 1.1281 1.1501 1.0944 1.0409 1.0130 1.1036 1.1126 1.1588 1.0264 1.0202 1.1073 1.0522 1.0771 cheeses 1.0390 0.9941 1.0257 1.1283 1.1317 1.0772 1.0439 1.0748 1.1346 1.0246 1.0640 1.0719 1.1656 1.0155 1.1132 1.0534 coffee/tea 1.0312 1.0598 1.1117 1.1036 1.0772 1.1466 1.0236 1.1420 1.0212 1.1215 1.0570 1.0658 1.1094 1.0366 1.0616 1.1257 1.0420 1.0728 1.0569 dinner rolls 1.1044 1.1212 1.1338 1.0649 1.1028 1.0439 1.0936 1.1318 1.1663 1.1121 1.1546 dishwashin.. 1.0803 1.0455 1.0771 1.1090 1.0661 1.0671 1.0452 1.0783 1.0736 1.0484 1.1161 1.1174 1.1082 1.1319 1.1126 1.0748 1.1466 1.1318 1.0517 1.0678 1.0489 1.1242 1.1462 1.1071 1.0318 1.1375 eggs 1.1385 1.0004 1.0219 1.0492 1.1588 1.1346 1.1257 1.1090 1.1320 1.1207 1.0749 1.0481 1.0848 1.0541 1.0297 1.0724 1.0369 flour 1.1092 1.1012 1.1743 1.1947 1.1281 1.0246 1.1663 1.0517 1.0541 1.1177 1.1156 1.0809 1.0371 1.0236 1.0755 1.0405 0.9752 1.0720 1.0583 1.0410 fruits 1.0428 0.9878 1.0128 1.0264 1.0640 1.1420 1.0678 1.0755 1.0672 1.0471 1.1283 1.0494 1.1103 1.0349 1.0661 1.0379 1.0580 1.0798 hand soap 1.1513 1.0401 1.1501 1.0918 1.1177 1.0844 1.1039 1.0517 1.0811 1.0478 1.0514 1.0420 1.0671 1.0736 1.0297 1.0379 1.1111 1.0557 1.0536 1.0893 ice cream 1.1240 1.1397 1.0944 1.0405 1.0844 1.0980 1.1946 0.9909 1.0470 1.0670 1.0739 1.0719 1.0212 1.0489 1.0724 1.0672 1.0192 1.0682 1.0141 individual .. 1.1881 1.0728 1.0452 1.1242 1.1111 1.0980 1.1486 1.1189 1.0645 1.0479 1.0202 1.0369 0.9752 1.0580 1.0730 juice 1.1066 1.1099 1.1041 1.1162 1.0475 1.0090 1.1073 1.1656 1.0941 1.0783 1.1462 1.1320 1.0720 1.0798 1.0557 1.0192 1.1486 1.1183 0.9753 1.1069 ketchup 1.1450 1.1041 1.0474 0.9964 1.1353 1.1309 1.0155 1.1215 1.1121 1.1071 1.0913 1.0583 1.0933 1.0536 1.0682 1.0903 1.1183 1.0512 1.1535 laundry det.. 1.1132 1.1156 1.1039 1.1946 1.0788 1.0575 1.0378 1.0670 1.0775 1.0409 1.0570 1.1338 1.0318 1.1207 1.0471 0.9753 1.0512 1.0697 lunch meat 1.1025 1.1274 1.1283 1.1069 1.1535 1.0990 0.9982 1.1548 1.0522 1.0534 1.0569 1.1546 1.1375 1.0410 1.0893 1.0141 1.0730 1.0697 1.0657 milk 1.1336 1.1123 1.1113 1.0849 1.1685 1.0349 1.1124 1.0782 1.1909 1.0283 1.1051 1.1683 1.0411 1.2343 1.1320 1.0721 1.0258 1.0570 1.0422 1.1828 1.1238 mixes 1.1432 1.1172 1.1740 1.1175 1.1341 1.1636 1.1344 1.1522 1.1497 1.1460 1.0795 1.1435 1.0660 1.1019 1.1294 1.0639 1.1785 1.0750 1.1719 paper towels 1.1032 1.1550 1.1004 1.0611 1.0531 1.0282 1.0986 1.1013 1.1974 1.1209 1.1705 1.1320 1.0464 1.1328 1.0506 1.1331 0.9694 1.0696 1.1477 1.0670 pasta 1.1339 1.1263 1.1002 1.1526 1.0723 1.0404 1.0663 1.0807 1.0348 1.1071 1.1543 0.9730 1.0564 0.9911 1.0579 1.1669 1.1635 1.0440 1.0624 1.0587 pork 1.1179 1.1114 1.0324 1.0781 1.0704 1.0985 1.0931 1.1891 1.1435 1.0742 1.0566 1.0740 1.0600 1.0662 1.0756 1.1118 1.0546 1.0956 1.1125 poultry 1.1332 1.1354 1.0849 1.1790 1.0949 1.0763 1.1273 1.0901 1.0416 1.2017 1.1731 1.0511 sandwich b. 1.0377 1.0675 1.0677 1.0163 1.0549 1.0658 1.0582 1.1300 1.0620 1.1173 1.0756 1.0787 1.1383 1.0997 0.9712 0.9862 1.1461 1.0783 1.1476 1.1346 1.2169 1.1772 0.9761 1.0112 sandwich lo. 1.1119 1.0968 1.0987 1.1207 1.1114 1.0744 1.0970 1.0923 1.1815 1.0185 1.0506 1.0996 1.0282 1.0806 1.0214 1.2264 1.1027 1.1011 1.0647 shampoo 0.9970 1.1238 1.1047 1.1283 1.1281 1.0559 1.1034 1.1212 1.0940 1.1656 1.1074 1.1204 1.1485 1.0775 1.0634 1.0815 1.0594 1.0305 1.0767 soap 1.0190 1.0752 1.0436 1.0610 1.0751 1.0102 1.0724 1.1267 1.2279 1.1461 1.0372 1.0264 1.1303 1.0680 1.0352 1.1645 soda 1.1435 1.0670 1.0891 1.1599 1.1297 1.0937 1.1290 1.1322 1.0236 1.1857 1.0126 1.0067 1.1241 1.1223 1.0685 1.1271 1.2244 1.1151 1.1441 1.1141 spaghetti s.. 1.1488 1.0392 1.1698 1.1043 1.0943 1.1331 1.0774 1.0250 1.0384 1.0938 1.0847 1.0736 1.1306 1.0926 1.0530 1.0351 1.0240 sugar 1.0831 1.0981 1.1197 1.1078 1.1101 1.1075 1.1343 1.0889 1.0201 1.0403 1.1071 1.0650 0.9894 1.0598 1.0594 1.0744 1.2074 1.1121 1.0669 1.0982 1.1352 toilet paper 1.0783 1.0254 1.1401 1.0201 1.0031 1.1022 1.0589 1.0903 1.0322 1.0781 1.0011 1.0279 1.0617 1.0420 1.0809 tortillas 1.0518 1.1509 1.1838 waffles 1.1347 1.1178 1.0517 1.0634 1.0474 1.0293 1.1230 1.1052 1.1478 1.1027 1.0412 1.1181 1.0495 1.1007 1.0550 1.1235 1.1035 1.0477 0.9549 1.1206 1.1454 1.1655 1.1632 1.1993 0.9930 1.1301 1.1153 1.0590 1.1579 1.1092 1.0230 1.0196 1.2184 1.0697 1.0921 1.0633 1.1471 yogurt

Heatmap to Visualize Product Associations

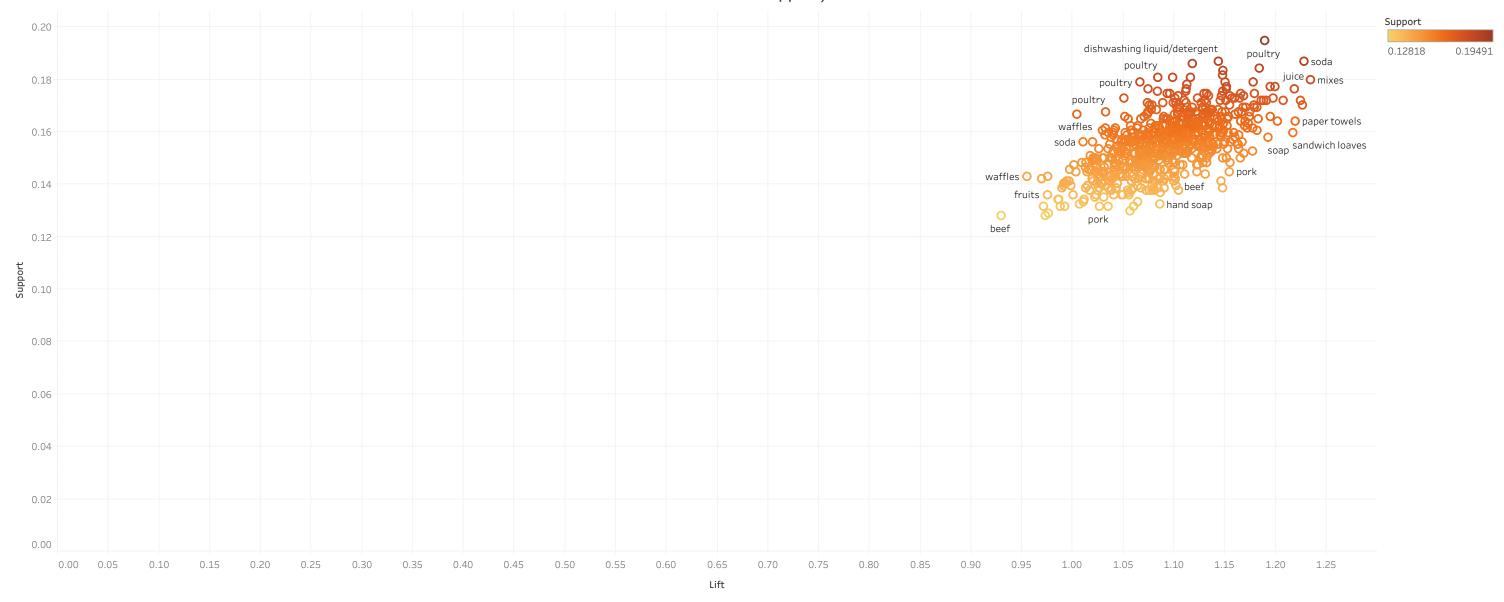
Consequent

pork poultry sandwic.. shampoo soap soda spaghett.. sugar toilet pa.. tortillas waffles yogurt

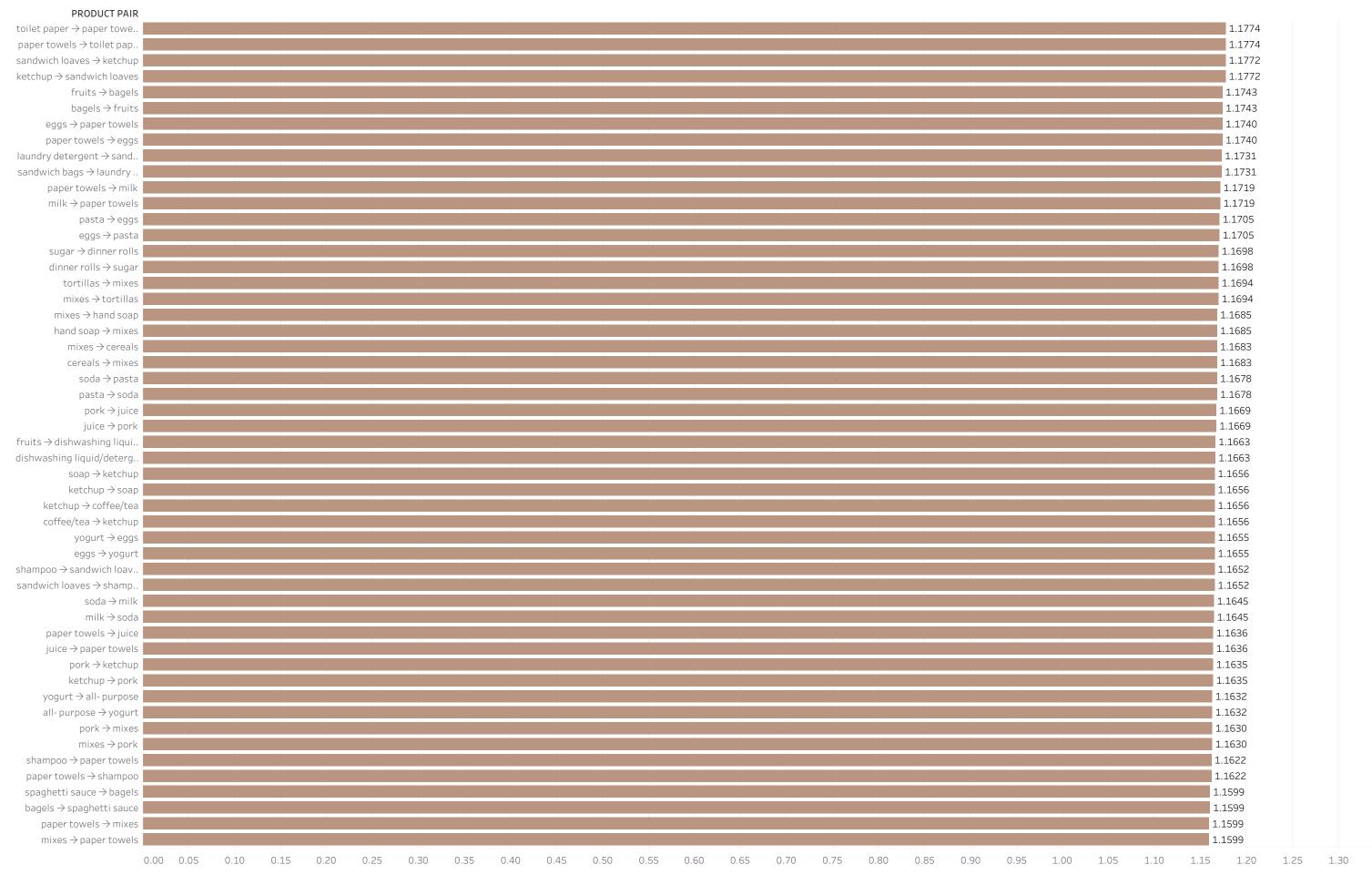
Items	mixes	paper to	pasta	pork	poultry	sandwic	sandwic	shampoo	soap	soda	spaghett	sugar	toilet pa	tortillas	waffles	yogurt
all- purpose	1.0782	1.1497	1.1477	1.1526	1.1114	1.0377	1.0857	1.0987	1.1485	1.0190	1.0670	1.0774	1.0831	1.0518	1.1347	1.1632
aluminum f	1.1909	1.1460	1.1004	1.0723	1.0835	1.0675	1.1173	1.1207	1.0775	1.0752	1.0891	1.0250	1.0981	1.0254	1.1178	1.1993
bagels	1.1336	1.0994	1.0611	1.1339	1.0324	1.0898	1.0756	1.1119	0.9970	1.0436	1.1599	1.0858	1.1197	1.1401	1.0517	1.0959
beef	1.0283	1.1432	1.0531	1.1263	1.0781	1.1332	1.0857	1.1114	1.1238	1.0610	1.1297	1.1488	1.1078	1.0201	1.0634	1.1206
butter	1.1051	1.0795	1.0282	1.0404	1.0704	1.1354	1.0996	1.0744	1.0634	1.0751	1.0937	1.0384	1.1101	1.0783	1.0474	0.9930
cereals	1.1683	1.1435	1.0986	1.0663	1.0839	1.0849	1.0787	1.0884	1.0815	1.0102	1.1290	1.0938	1.1075	1.0858	1.0293	1.1301
cheeses	1.1123	1.0660	1.1013	1.0807	1.0985	1.1790	1.1383	1.0970	1.0961	1.1043	1.1322	1.0836	1.1343	1.0031	1.1230	1.1454
coffee/tea	1.0411	1.1172	1.1032	1.1002	1.0931	1.0949	1.0997	1.0923	1.1047	1.0724	1.0236	1.0392	1.0889	1.1022	1.1509	1.1016
dinner rolls	1.1113	1.1019	1.1974	1.0348	1.1891	1.0677	1.0982	1.1815	1.0594	1.1267	1.1857	1.1698	1.0201	1.0993	1.1052	1.1153
dishwashin	1.2343	1.1294	1.1209	1.1071	1.1435	1.0763	0.9712	1.0185	1.0856	1.1003	1.0126	1.0847	1.0403	1.0589	1.1478	1.0590
eggs	1.0849	1.1740	1.1705	1.0895	1.0742	1.0163	0.9862	1.0506	1.1283	1.2279	1.1227	1.0736	1.1071	1.1029	1.1027	1.1655
flour	1.1320	1.0839	1.1320	1.1543	1.0566	1.0549	1.1461	1.0996	1.1281	1.1461	1.0067	1.1306	1.0650	1.0903	1.0412	1.1579
fruits	1.0721	1.1175	1.0464	0.9730	1.0740	1.1273	1.0783	1.0282	1.0559	1.0372	1.1241	1.0901	0.9894	1.0322	1.1181	1.1092
hand soap	1.1685	1.0639	1.1550	1.0564	1.0600	1.0901	1.1476	1.0806	1.0305	1.0264	1.1223	1.1043	1.0598	1.0781	1.0495	1.0230
ice cream	1.0258	1.1785	1.1328	0.9911	1.0662	1.0658	1.1346	1.0214	1.1034	1.0825	1.0685	1.0926	1.0594	1.0011	1.1007	1.0196
individual	1.0570	1.1341	1.0506	1.0579	1.0756	1.0416	1.2169	1.0962	1.1212	1.1303	1.1271	1.0943	1.0744	1.0999	1.0550	1.0936
juice	1.0422	1.1636	1.0670	1.1669	1.1118	1.0582	1.1007	1.2264	1.0940	1.0680	1.2244	1.0530	1.2074	1.0279	1.1235	1.2184
ketchup	1.1828	1.1344	1.1331	1.1635	1.0546	1.2017	1.1772	1.1027	1.1656	1.0892	1.1151	1.0351	1.1121	1.0617	1.1035	1.0697
laundry det	1.1238	1.0750	1.0933	1.0440	1.0956	1.1731	0.9761	1.1011	1.0767	1.1046	1.1441	1.0931	1.0669	1.0420	1.0477	1.0921
lunch meat	1.0349	1.1522	0.9694	1.0624	1.1179	1.0511	1.0620	1.0968	1.1074	1.0352	1.1435	1.1331	1.0982	1.1183	1.1838	1.0633
milk	1.1124	1.1719	1.0696	1.0587	1.1125	1.1300	1.0112	1.0647	1.1204	1.1645	1.1141	1.0240	1.1352	1.0809	0.9549	1.1471
mixes		1.1599	1.0506	1.1630	1.1476	1.1242	1.1233	1.1278	1.0349	1.0226	1.1271	1.0166	1.0497	1.1694	1.0431	1.1423
paper towels	1.1599		1.2192	1.0555	1.0399	1.1255	1.1018	1.1622	1.1236	1.1341	1.1551	1.0803	1.1774	1.0612	1.0933	1.0893
pasta	1.0506	1.2192		1.0106	1.0322	1.0796	1.0892	1.1027	1.1344	1.1678	1.1531	1.1269	1.0621	1.1129	1.1035	1.1127
pork	1.1630	1.0555	1.0106		1.0956	1.1478	1.0599	1.0848	1.0742	1.0681	1.0720	1.0264	1.0245	1.1223	1.0836	1.1108
poultry	1.1476	1.0399	1.0322	1.0956		1.1100	1.1090	1.1017	1.1480	1.0505	1.0888	1.1778	1.0736	1.0991	1.0041	1.1160
sandwich b	1.1242	1.1255	1.0796	1.1478	1.1100		1.0723	1.0809	1.1389	1.1301	1.0746	0.9921	1.0407	1.1816	1.0958	1.0985
sandwich lo	1.1233	1.1018	1.0892	1.0599	1.1090	1.0723		1.1652	1.1924	1.0354	1.1515	1.0862	1.0757	1.1012	1.0644	1.1369
shampoo	1.1278	1.1622	1.1027	1.0848	1.1017	1.0809	1.1652		1.0797	1.0421	1.0146	1.1085	1.1263	0.9856	1.0691	1.1207
soap	1.0349	1.1236	1.1344	1.0742	1.1480	1.1389	1.1924	1.0797		1.1791	1.1353	1.1290	1.1439	1.0584	1.1568	1.0293
soda	1.0226	1.1341	1.1678	1.0681	1.0505	1.1301	1.0354	1.0421	1.1791		1.1503	1.1521	1.0986	1.0761	1.1515	1.1162
spaghetti s	1.1271	1.1551	1.1531	1.0720	1.0888	1.0746	1.1515	1.0146	1.1353	1.1503		1.0759	1.0757	1.0758	1.1162	1.1136
sugar	1.0166	1.0803	1.1269	1.0264	1.1778	0.9921	1.0862	1.1085	1.1290	1.1521	1.0759		1.1124	1.1059	1.1233	1.1452
toilet paper	1.0497	1.1774	1.0621	1.0245	1.0736	1.0407	1.0757	1.1263	1.1439	1.0986	1.0757	1.1124		1.1173	1.1595	1.1162
tortillas	1.1694	1.0612	1.1129	1.1223	1.0991	1.1816	1.1012	0.9856	1.0584	1.0761	1.0758	1.1059	1.1173		1.0243	1.0748
waffles	1.0431	1.0933	1.1035	1.0836	1.0041	1.0958	1.0644	1.0691	1.1568	1.1515	1.1162	1.1233	1.1595	1.0243		1.1467
yogurt	1.1423	1.0893	1.1127	1.1108	1.1160	1.0985	1.1369	1.1207	1.0293	1.1162	1.1136	1.1452	1.1162	1.0748	1.1467	

0.9295	1.2343

Correlation Between Lift & Support)



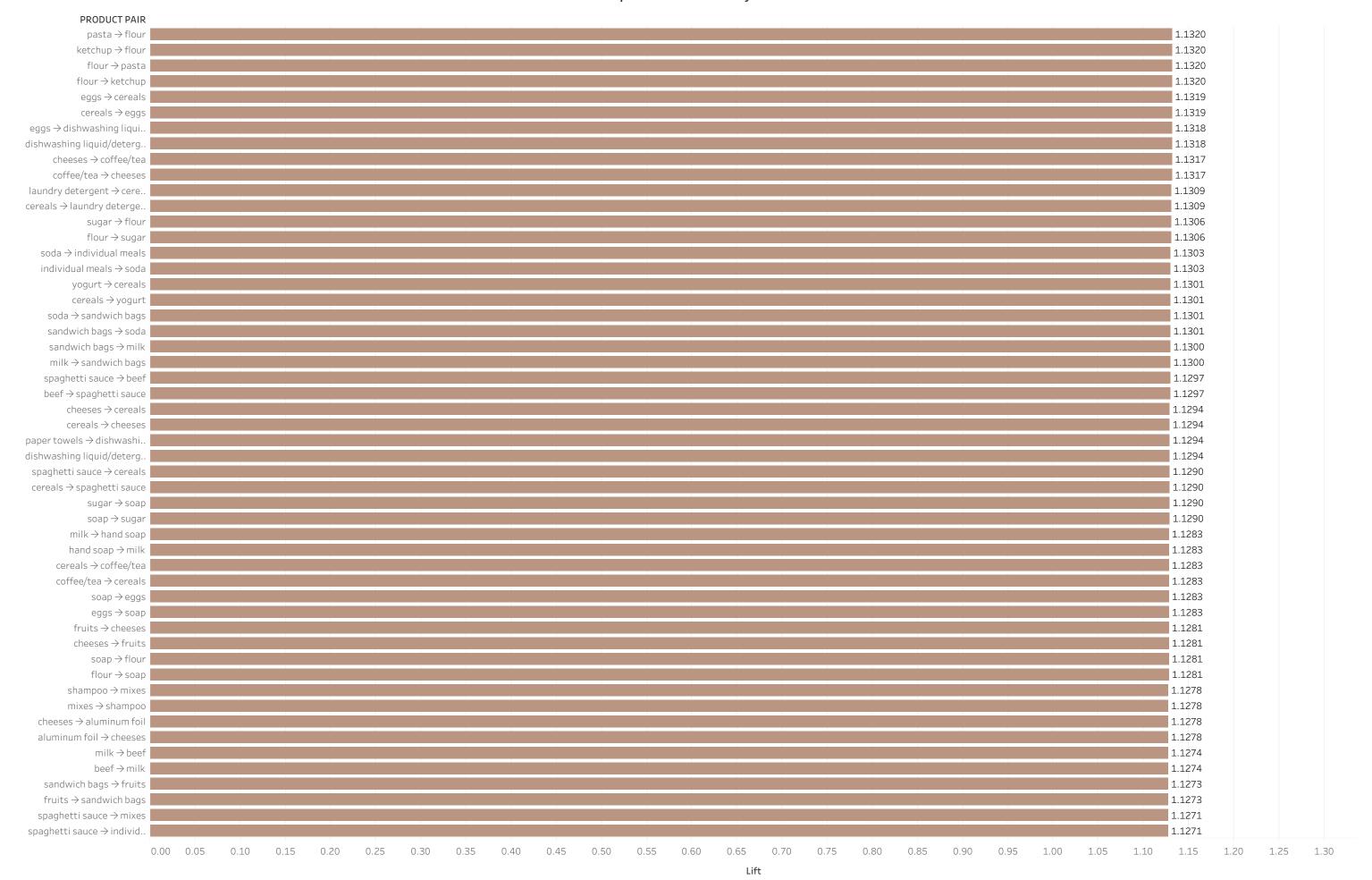








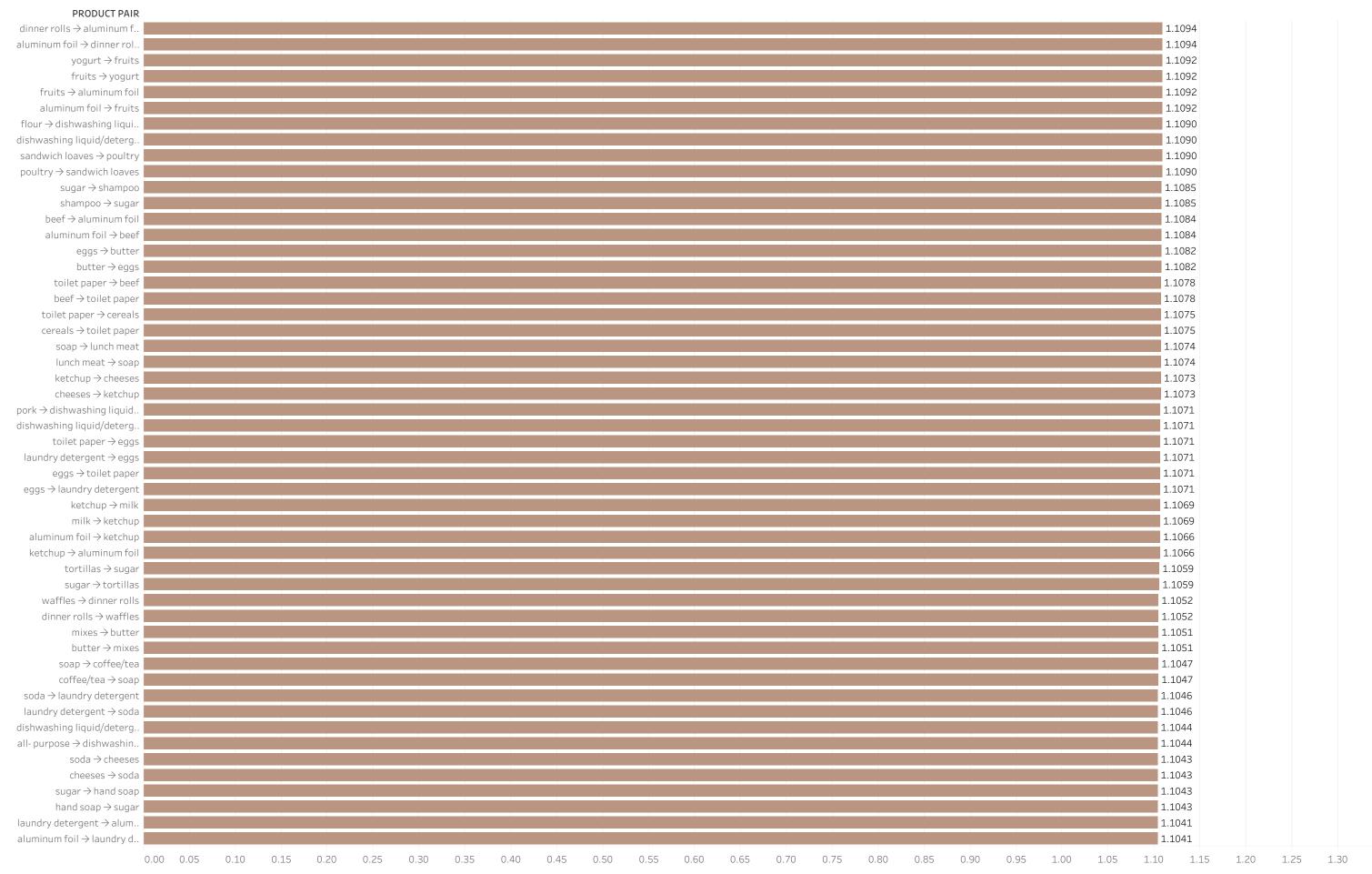
dwich loaves → cheeses		.383
eses → sandwich loaves		.383
milk → eggs		.375
eggs → milk		
bagels → aluminum foil	1.1	
aluminum foil → bagels	1.1	
andwich loaves → yogurt	1.1	
ogurt → sandwich loaves		
cereals → beef		
beef → cereals		
sandwich bags → butter		
butter → sandwich bags		
ndry detergent → butter		
ter → laundry detergent		
soap → spaghetti sauce		
spaghetti sauce → soap		
toilet paper → milk		
milk → toilet paper		
waffles → all- purpose		
all- purpose → waffles		
flour → coffee/tea		
coffee/tea → flour	1.1	
ndwich loaves → ice cre	1.1	
e cream → sandwich loa	1.1	
paper towels → ketchup	1.1	
ketchup → paper towels	1.1	
pasta → soap	1.1	
soap → pasta	1.1	
toilet paper → cheeses	1.1	
cheeses → toilet paper	1.1	
soda → paper towels	1.1	
paper towels → soda	1.1	
per towels → individual	1.1	
dividual meals → paper	1.1	
pork → bagels	1.13	
bagels → pork	1.13	
nch meat → dishwashin	1.13	
shwashing liquid/deterg	1.1	
mixes → bagels		
bagels → mixes	1.13	
beef → sandwich bags	1.1	
sandwich bags → beef	1.13	
sugar → lunch meat	1.13	
lunch meat → sugar		
pasta → ketchup	1.1	
ketchup → pasta	1.1	
pasta → ice cream	1.13	
ice cream → pasta	1.13	
neeses → spaghetti sauce	1.13	
oaghetti sauce → cheeses	1.13	
mixes → flour	1.13	
flour → mixes	1.13	320



es → spaghetti sauce		.1271
idual meals → spagh		.1271
pasta → sugar		1269
sugar → pasta		1269 1267
soda → dinner rolls		1267
dinner rolls → soda		1263
toilet paper → shampoo shampoo → toilet paper		1263
pork → beef		1263
beef → pork		1263
flour \rightarrow dinner rolls		1257
dinner rolls → flour		1257
ndwich bags → paper to		1255
per towels → sandwich		1255
juice → eggs		1242
eggs → juice		1242
sandwich bags → mixes		1242
mixes → sandwich bags		1242
fruits \rightarrow spaghetti sauce		1241
spaghetti sauce → fruits		1241
dividual meals → alumin		1240
uminum foil → individua		1240
soap → beef		1238
beef → soap		1238
iixes → laundry detergent		1238
undry detergent → mixes		1238
paper towels → soap		1236
soap → paper towels		1236
waffles → juice		1235
juice → waffles		1235
waffles → sugar		1233
sugar → waffles		1233
sandwich loaves → mixes		1233
mixes → sandwich loaves		1233
waffles → cheeses		1230
cheeses → waffles		1230
eggs → spaghetti sauce		1227
spaghetti sauce → eggs		1227
paghetti sauce → hand s		1223
and soap → spaghetti sa	1.	1223
tortillas → pork	1.	1223
pork → tortillas	1.	1223
aundry detergent → dinn	1.	.215
nner rolls → laundry det	1.:	.215
shwashing liquid/deterg		.212
gels → dishwashing liqu	1.	.212
individual meals → soap		212
soap → individual meals		.212
sta → dishwashing liqui		209
shwashing liquid/deterg		209
lunch meat → flour		.207
flour → lunch meat	1.	.207

PRODUCT PAIR yogurt → shampoo	1.1207
shampoo → yogurt	1.1207
ampoo → aluminum foil	1.1207
ıminum foil → shampoo	1.1207
yogurt → beef	1.1206
beef → yogurt	1.1206
soap → milk	1.1204
milk → soap	1.1204
toilet paper → bagels	1.1197
bagels → toilet paper	1.1197
juice → bagels	1.1189
bagels → juice	1.1189
chup → laundry deterg	1.1183
ndry detergent → ketc	1.1183
tortillas → lunch meat	1.1183
lunch meat → tortillas	1.1183
waffles → fruits	1.1181
fruits → waffles	1.1181
poultry → lunch meat	1.1179
lunch meat → poultry	1.1179
vaffles → aluminum foil	1.1178
aluminum foil → waffles	1.1178
ice cream → fruits	1.1177
fruits → ice cream	1.1177
paper towels → fruits	1.1175
fruits → paper towels	1.1175
eggs → beef	1.1174
beef → eggs	1.1174
toilet paper → tortillas	1.1173
tortillas → toilet paper	1.1173
ndwich loaves → alumin	1.1173
ıminum foil → sandwich	1.1173
aper towels → coffee/tea	1.1172
offee/tea → paper towels	1.1172
yogurt → toilet paper	1.1162
toilet paper → yogurt	1.1162
raffles → spaghetti sauce	1.1162
paghetti sauce → waffles	1.1162
ketchup → beef	1.1162
beef → ketchup	1.1162
yogurt → soda	1.1162
soda → yogurt	1.1162
eggs → bagels	1.1161
bagels → eggs	1.1161
yogurt → poultry	1.1160
poultry → yogurt	1.1160
lunch meat → fruits	1.1156
fruits → lunch meat	1.1156
yogurt → dinner rolls	1.1153
dinner rolls → yogurt	1.1153
etchup → spaghetti sauce	1.1151
ighetti sauce → ketchup	1.1151

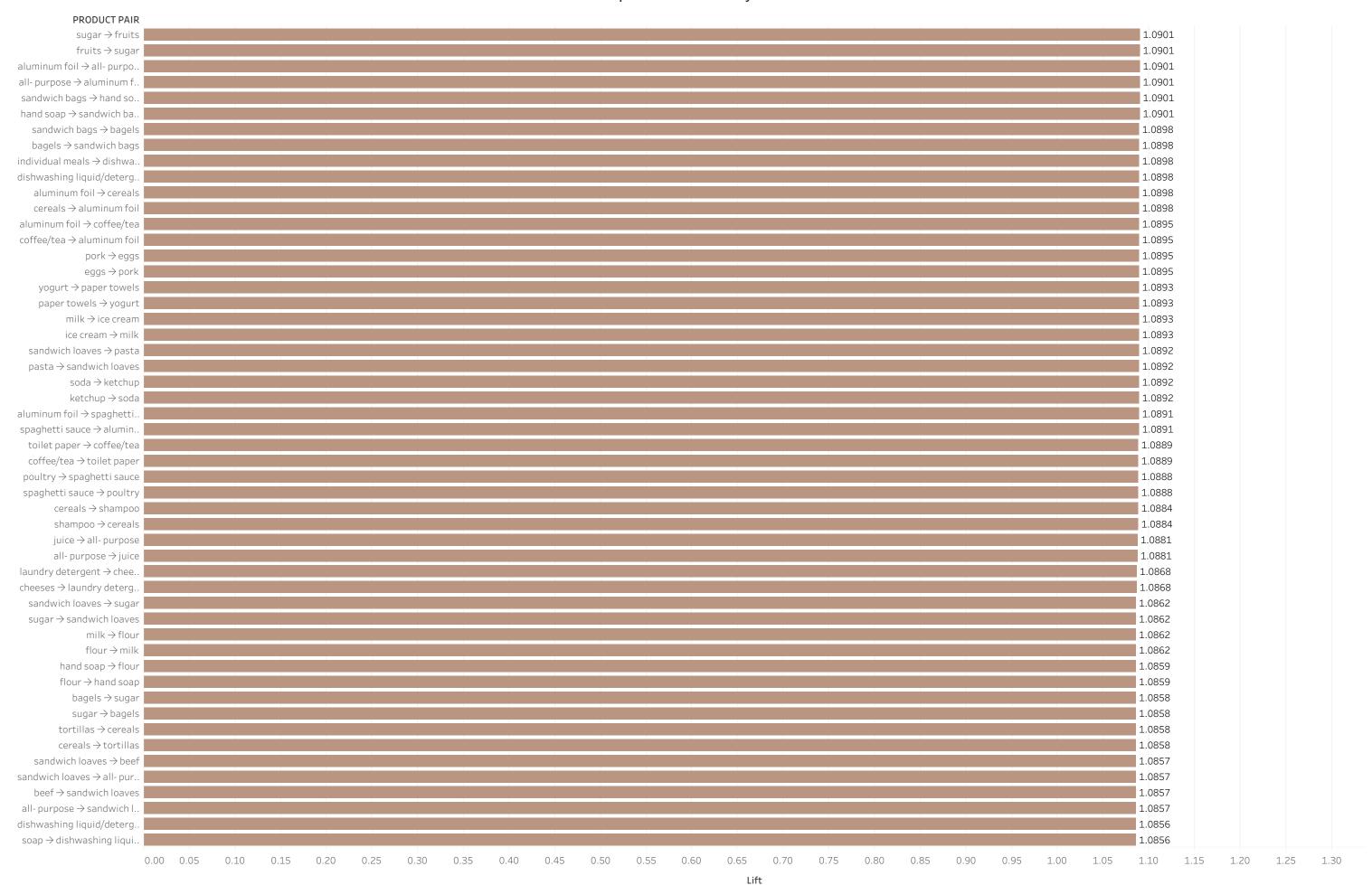
aghetti sauce → milk	1.1141
lk → spaghetti sauce	1.1141
cheeses → bagels	1.1136
bagels → cheeses	1.1136
urt → spaghetti sauce	1.1136
aghetti sauce → yogurt	1.1136
ınch meat → coffee/tea	1.1132
offee/tea → lunch meat	1.1132
tortillas → pasta	1.1129
pasta → tortillas	1.1129
yogurt → pasta	1.1127
pasta → yogurt	1.1127
eggs → cheeses	1.1126
cheeses → eggs	1.1126
poultry → milk	1.1125
milk → poultry	1.1125
mixes → milk	1.1124
milk → mixes	1.1124
toilet paper → sugar	1.1124
sugar → toilet paper	1.1124
mixes → cheeses	1.1123
cheeses → mixes	1.1123
ındry detergent → dish	1.1121
nwashing liquid/deterg	1.1121
toilet paper → ketchup	1.1121
ketchup → toilet paper	1.1121
shampoo → bagels	1.1119
bagels → shampoo	1.1119
juice → poultry	1.1118
poultry → juice	1.1118
cheeses → butter	1.1118
butter → cheeses	1.1118
dinner rolls → cereals	1.1117
cereals → dinner rolls	1.1117
shampoo → beef	1.1114
poultry → all- purpose	1.1114
beef → shampoo	1.1114
all- purpose → poultry	1.1114
mixes → dinner rolls	1.1113
dinner rolls → mixes	1.1113
juice → ice cream	1.1111
ice cream → juice	1.1111
yogurt → pork	1.1108
pork → yogurt	1.1108
hand soap → beef	1.1103
beef → hand soap	1.1103
toilet paper → butter	1.1101
butter → toilet paper	1.1101
oultry → sandwich bags	1.1100
andwich bags → poultry	1.1100
all- purpose → ketchup	1.1099
ketchup → all- purpose	1.1099



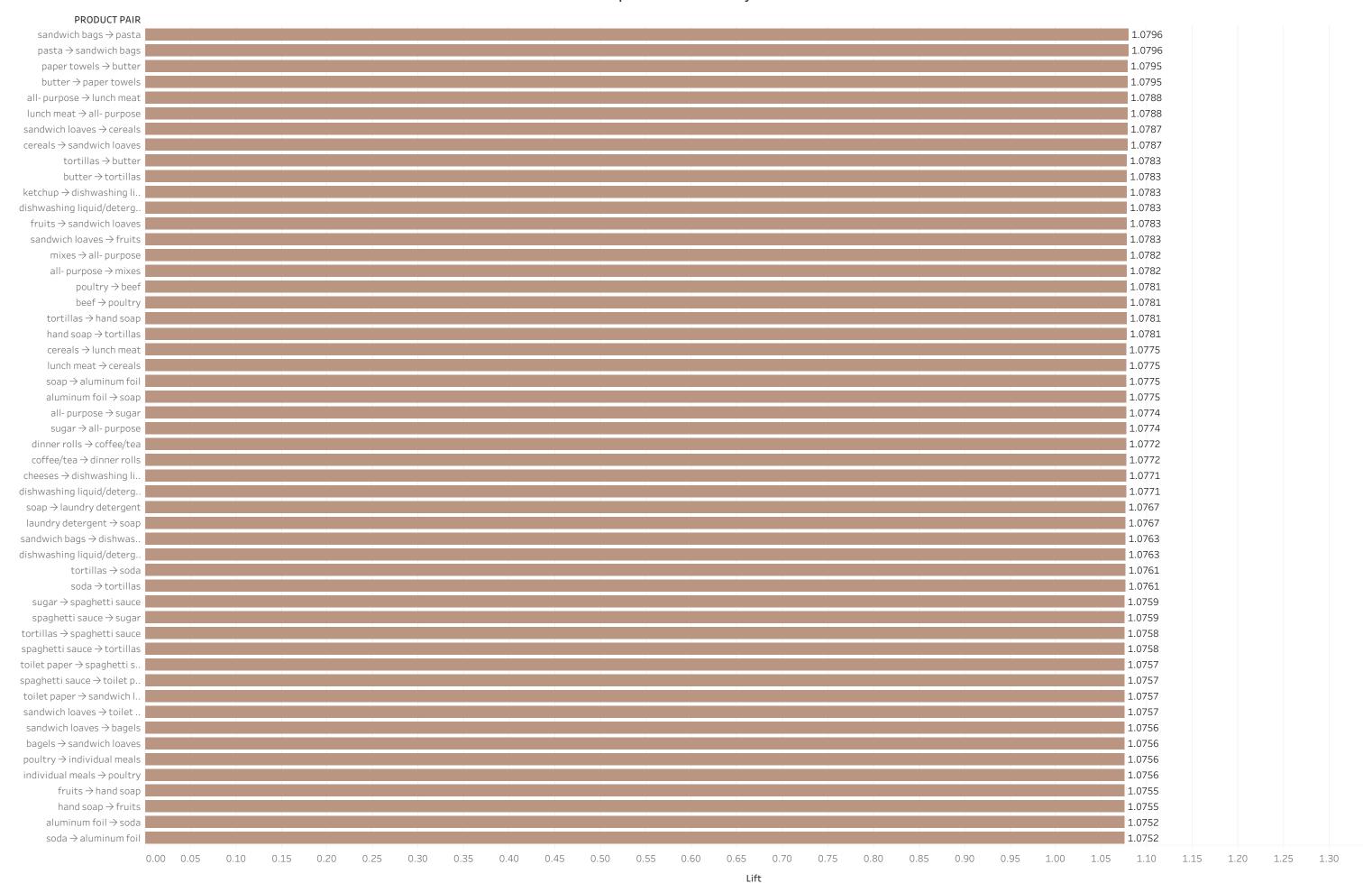
ketchup → bagels	1.1041
bagels → ketchup	1.1041
ream → lunch meat	1.1039
n meat → ice cream	1.1039
ner rolls → cheeses	1.1036
eses → dinner rolls	1.1036
waffles → pasta	1.1035
waffles → ketchup	1.1035
pasta → waffles	1.1035
ketchup → waffles	1.1035
soap → ice cream	1.1034
ice cream → soap	1.1034
pasta → coffee/tea	1.1032
offee/tea → pasta	1.1032
tortillas → eggs	1.1029
eggs → tortillas	1.1029
dishwashing liq	1.1028
ing liquid/deterg	1.1028
pasta → shampoo	1.1027
tchup → shampoo	1.1027
shampoo → pasta	1.1027
nampoo → ketchup	1.1027
waffles → eggs	1.1027
eggs → waffles	1.1027
bagels → milk	1.1025
milk → bagels	1.1025
tillas → coffee/tea	1.1022
fee/tea → tortillas	1.1022
wels → dinner rolls	1.1019
lls → paper towels	1.1019
n loaves → paper	1.1018
wels → sandwich	1.1018
hampoo → poultry	1.1017
oultry > shampoo	1.1017
ogurt → coffee/tea	1.1016
offee/tea → yogurt	1.1016
pasta → cheeses	1.1013
cheeses → pasta	1.1013
loaves → tortillas	1.1012
→ sandwich loaves	1.1012
fruits → cereals	1.1012
cereals → fruits	1.1012
detergent → sha	1.1011
→ laundry deter	1.1011
e cream → waffles	1.1007
affles → ice cream	1.1007
sandwich loaves	1.1007
vich loaves → juice	1.1007
juice → beef	1.1006
beef → juice	1.1006
ta → aluminum foil	1.1004
ninum foil → pasta	1.1004

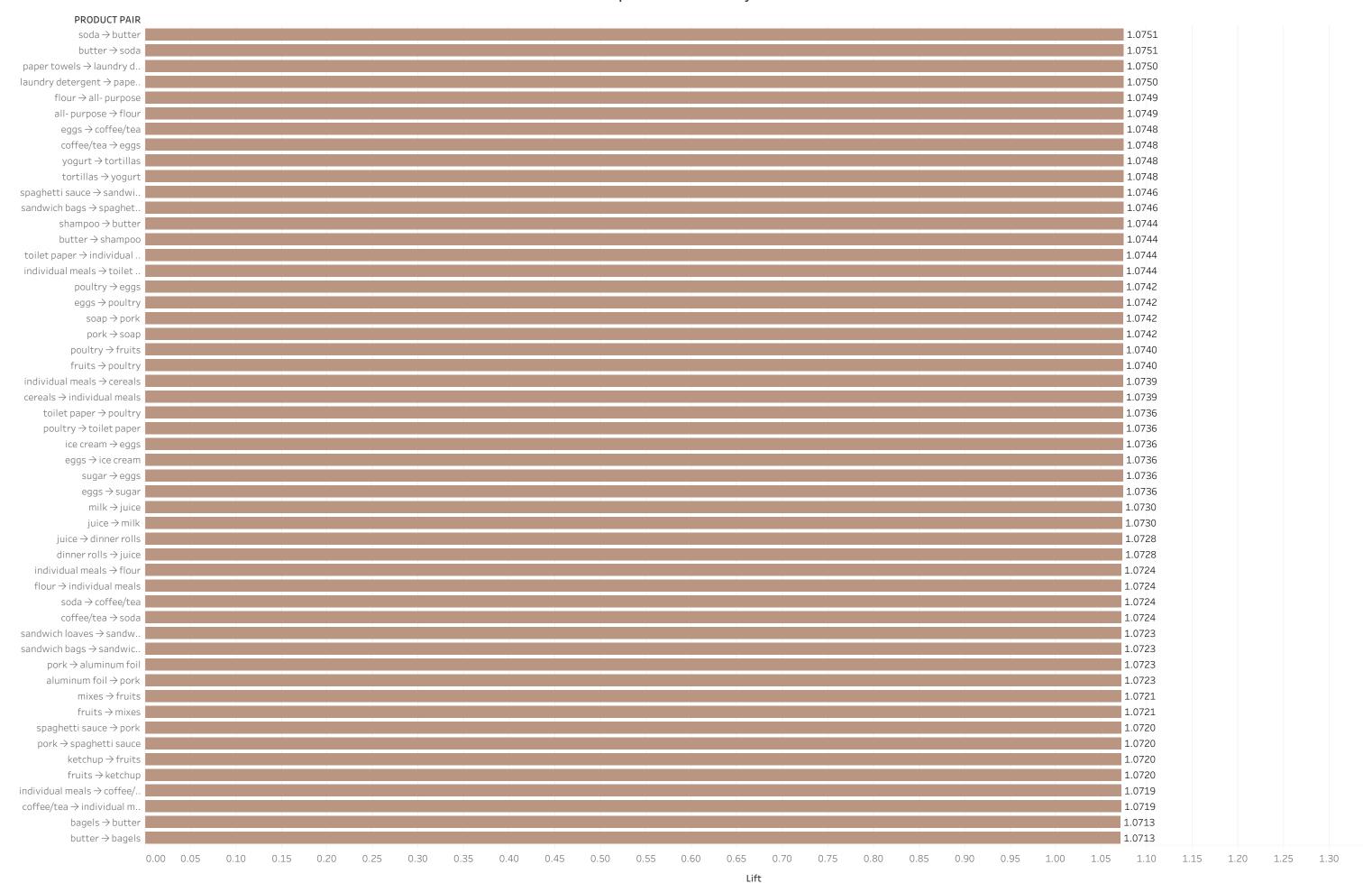


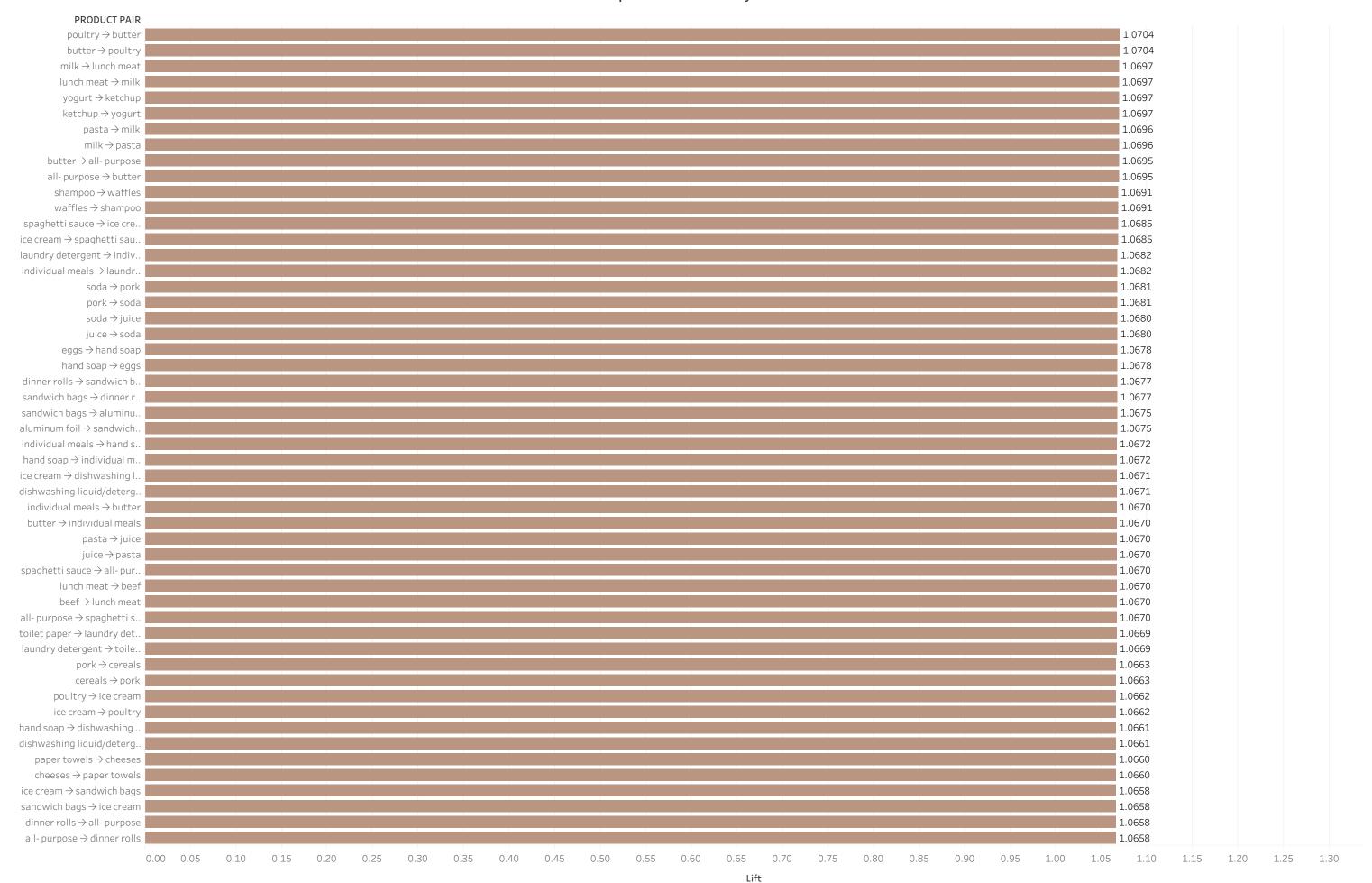








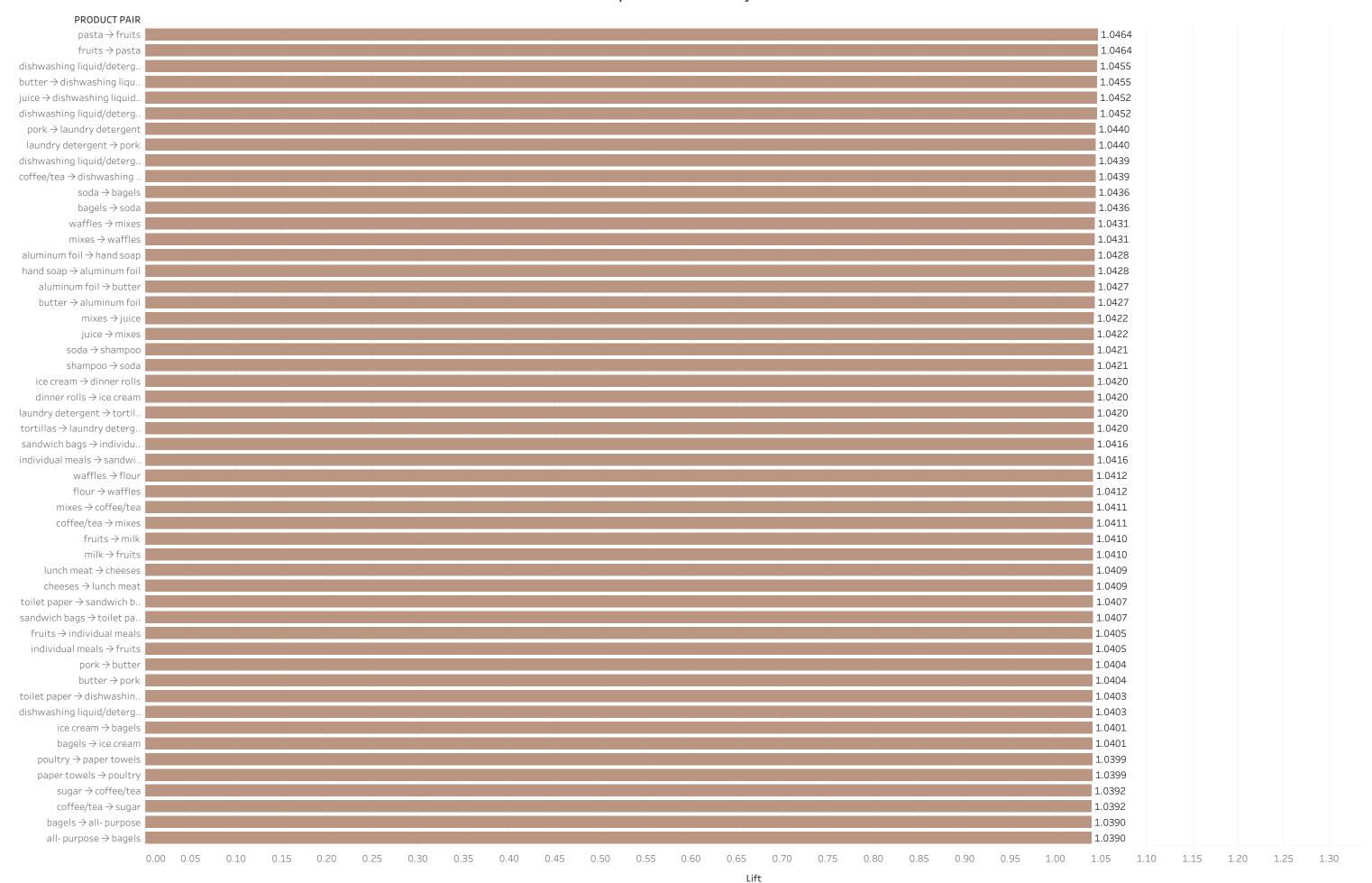


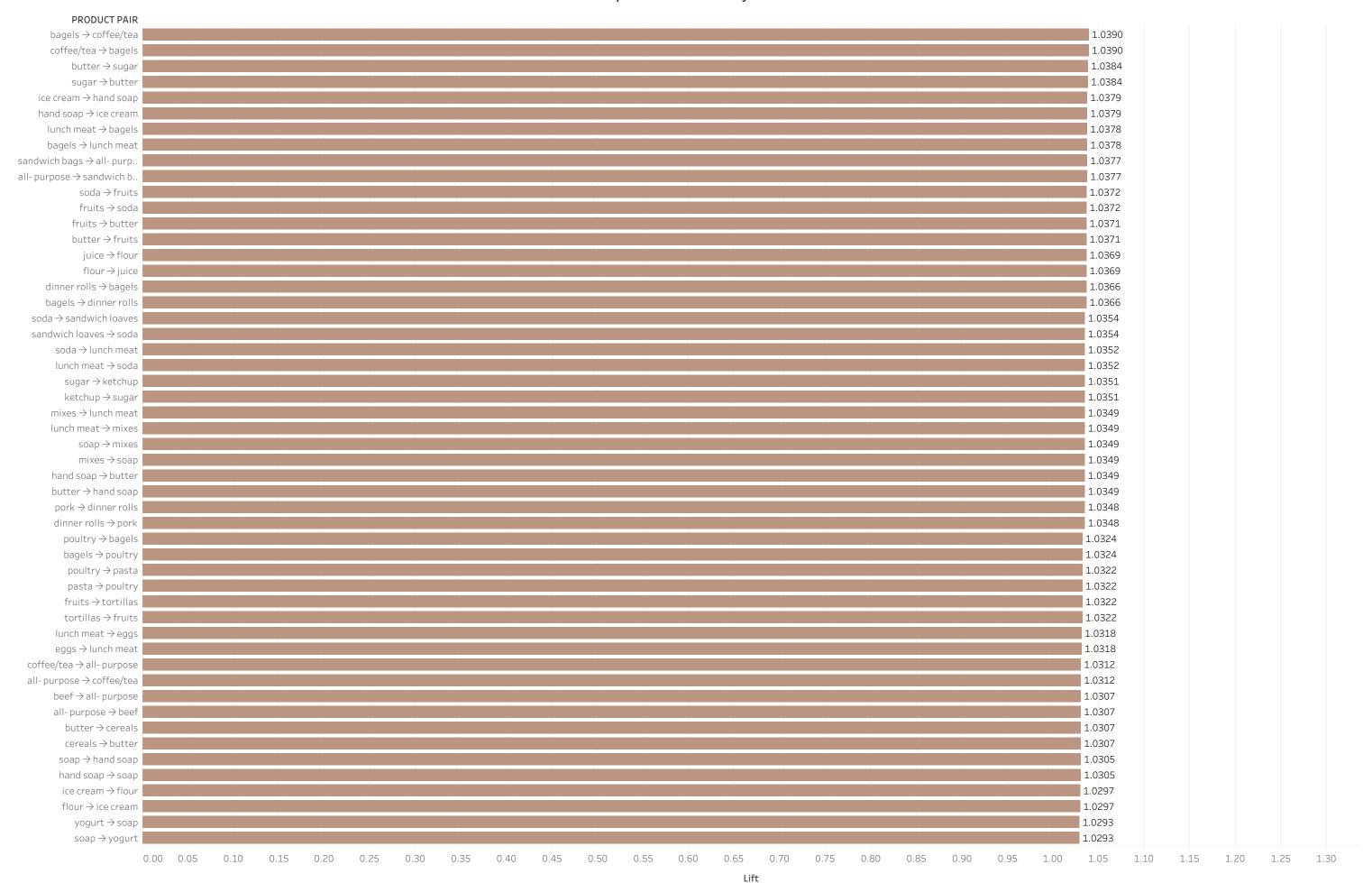


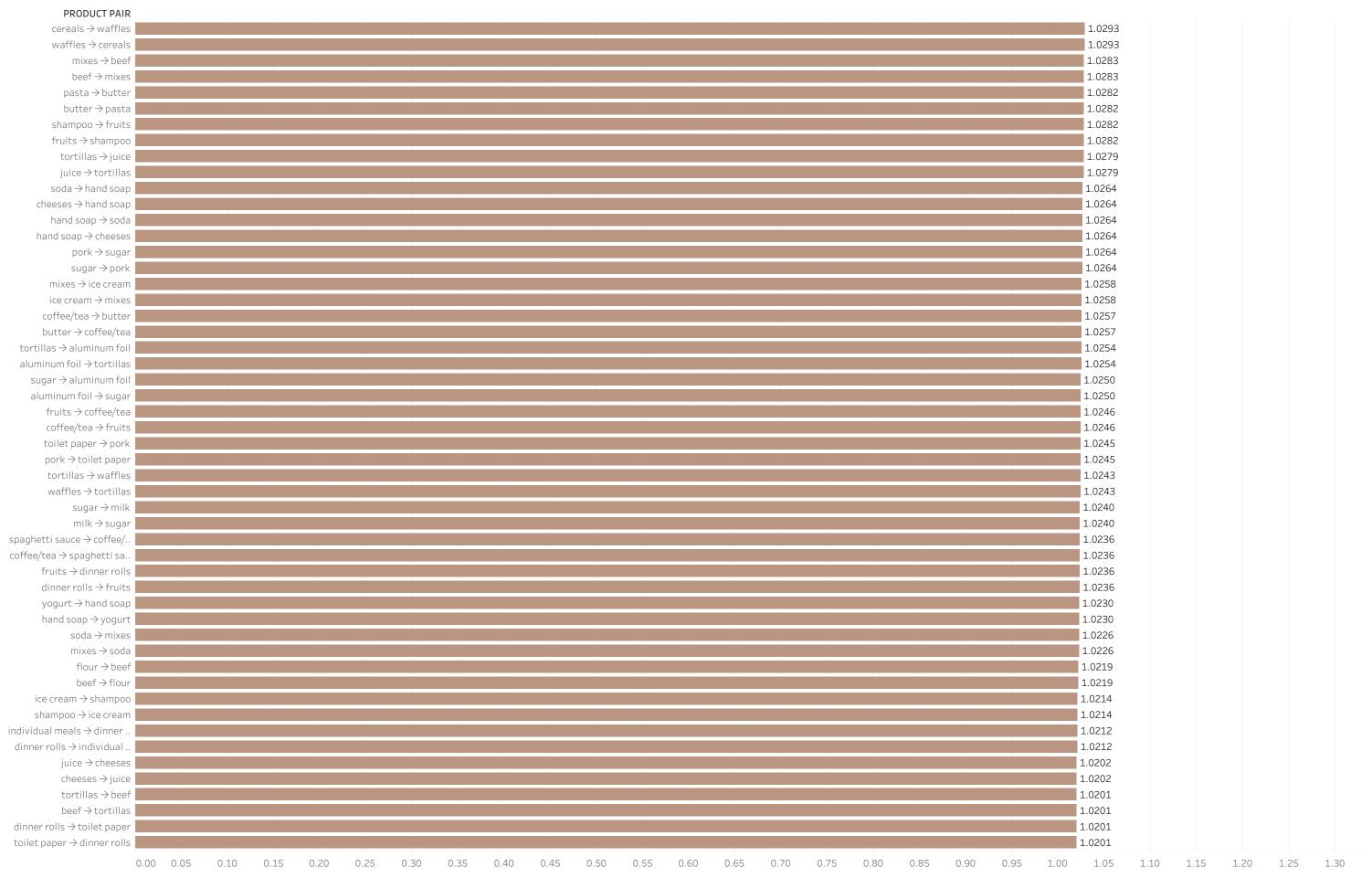
milk → all- purpose	1.0	657
all- purpose → milk	1.0	657
toilet paper → flour	1.00	
flour → toilet paper	1.00	650
ashing liquid/deterg	1.00	549
num foil → dishwash	1.00	
shampoo → milk	1.06	
milk → shampoo	1.06	
juice → butter	1.06	
butter → juice	1.06	
dwich loaves → waffles	1.06	
fles → sandwich loaves	1.0ϵ	
bagels → cereals	1.06	
cereals → bagels	1.06	
nand soap → coffee/tea	1.06	
offee/tea → hand soap	1.06	
er towels → hand soap	1.06	
id soap → paper towels	1.06	
soap → butter	1.06	
butter → soap	1.06	
waffles → beef	1.06	
beef → waffles	1.06	
yogurt → lunch meat	1.06	
lunch meat → yogurt	1.06	
pork → lunch meat	1.06	
lunch meat → pork	1.06	
toilet paper → pasta	1.06	
	1.06	
pasta → toilet paper dwich loaves → lunch	1.06	
	1.06	
ch meat → sandwich lo		
tortillas → ketchup	1.06	
ketchup → tortillas	1.06	
dinner rolls → butter	1.06	
butter → dinner rolls	1.06	
paper towels → tortillas	1.06	
ortillas → paper towels	1.06	
bagels → pasta	1.06	
pasta → bagels	1.06	
soda → beef	1.06	
beef → soda	1.06	
poultry → hand soap	1.06	
hand soap → poultry	1.06	
sandwich loaves → pork	1.05	
oork → sandwich loaves	1.05	
ilet paper → hand soap	1.05	
nd soap → toilet paper	1.05	
dinner rolls → beef	1.05	
beef → dinner rolls	1.05	
oilet paper → ice cream	1.05	
ce cream → toilet paper	1.05	
soap → dinner rolls	1.05	
dinner rolls → soap	1.05	94

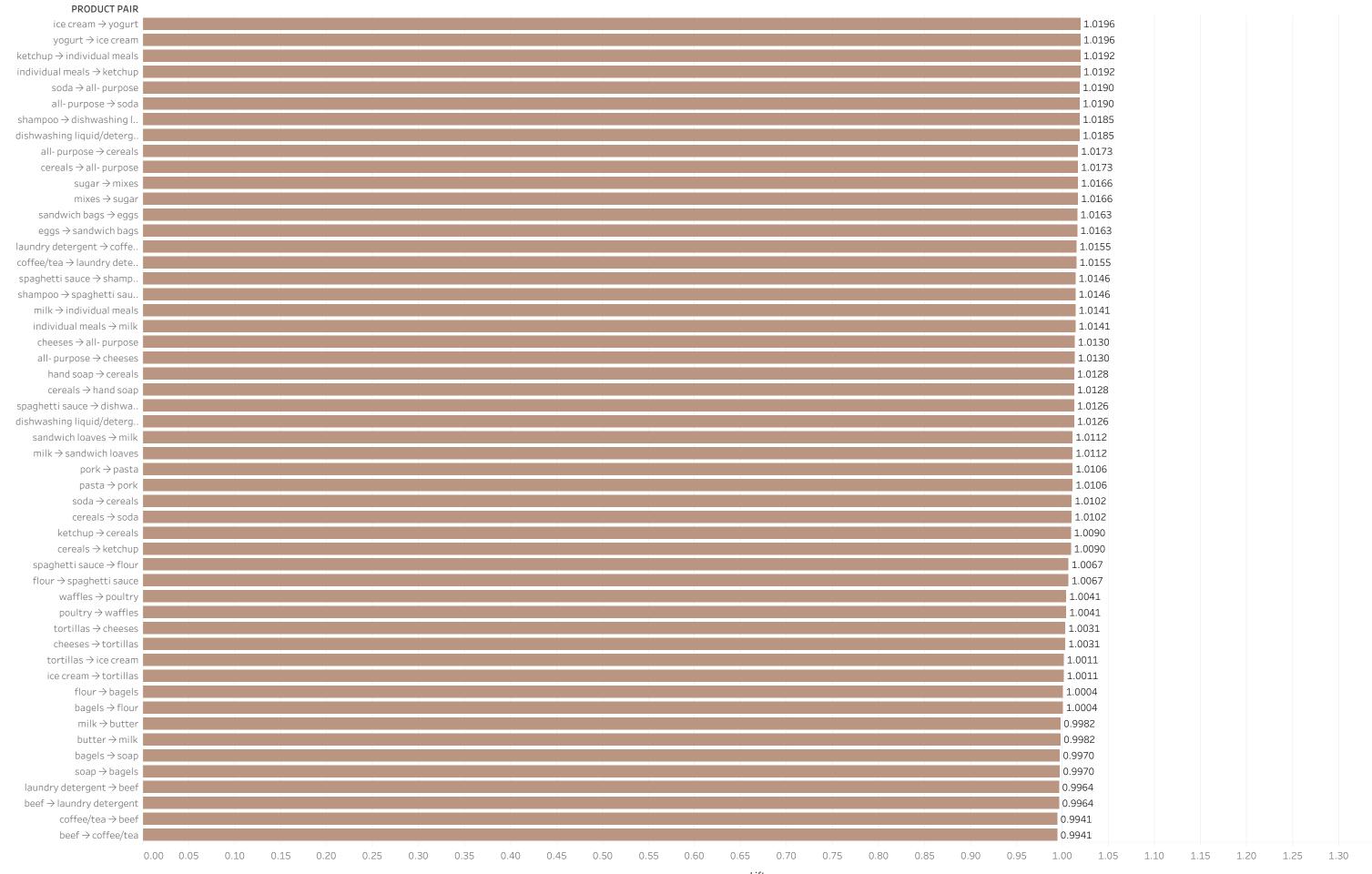


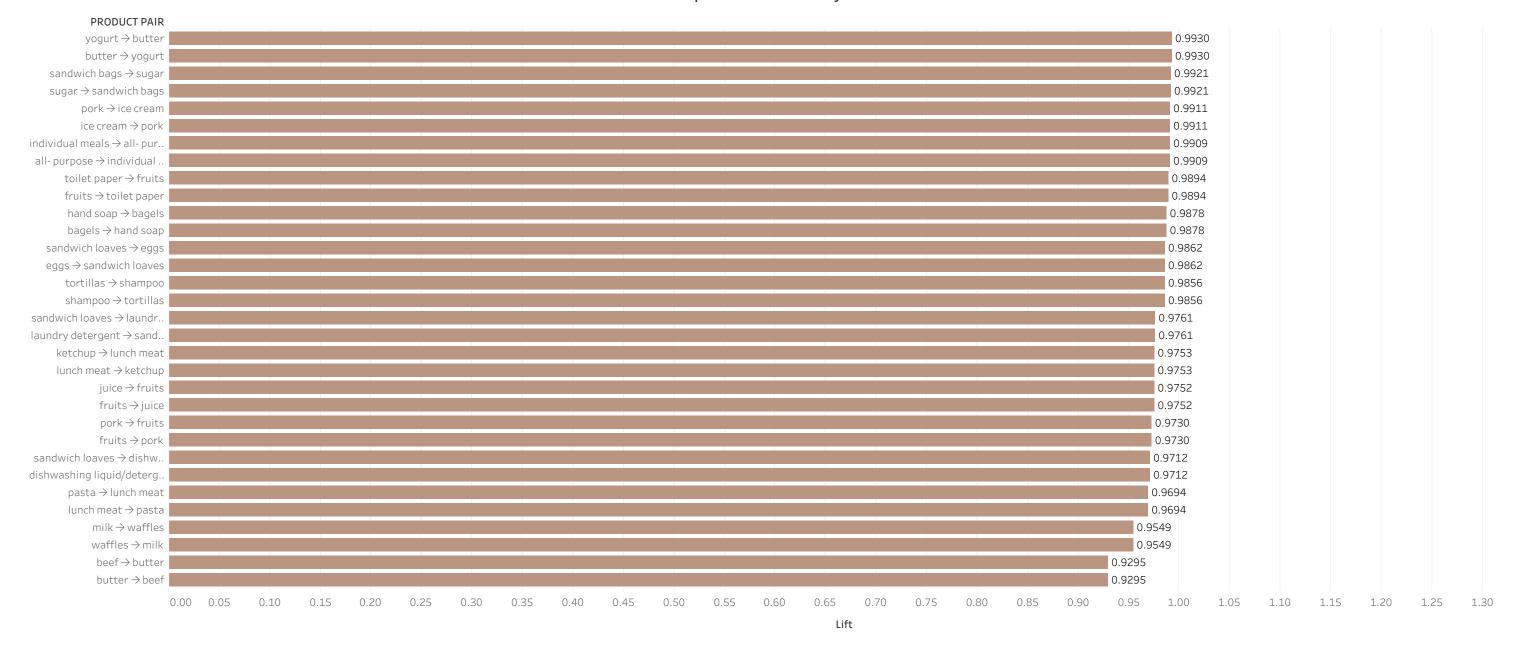
ortillas → all- purpose	1.0518
all- purpose → tortillas	1.0518
ce cream → all- purpose	1.0517
III- purpose → ice cream	1.0517
bagels → waffles	1.0517
waffles → bagels	1.0517
fruits → eggs	1.0517
eggs → fruits	1.0517
ice cream → cereals	1.0514
cereals → ice cream	1.0514
ndry detergent → lunc	1.0512
ch meat → laundry det	1.0512
h meat → sandwich ba	1.0511
dwich bags → lunch m	1.0511
pasta → mixes	1.0506
asta → individual meals	1.0506
mixes → pasta	1.0506
ndividual meals → pasta	1.0506
shampoo → eggs	1.0506
eggs → shampoo	1.0506
soda → poultry	1.0505
poultry → soda	1.0505
toilet paper → mixes	1.0497
mixes → toilet paper	1.0497
waffles → hand soap	1.0495
hand soap → waffles	1.0495
and soap → all- purpose	1.0494
I- purpose → hand soap	1.0494
flour → cereals	1.0492
cereals → flour	1.0492
ndividual meals → eggs	1.0489
eggs → individual meals	1.0489
eggs → aluminum foil	1.0484
aluminum foil → eggs	1.0484
flour → butter	1.0481
butter → flour	1.0481
juice → cereals	1.0479
cereals → juice	1.0479
ice cream → butter	1.0478
butter → ice cream	1.0478
ıdry detergent → waffl	1.0477
ffles → laundry deterg	1.0477
ketchup → butter	1.0475
butter → ketchup	1.0475
ndry detergent → bage	1.0474
gels → laundry deterge	1.0474
waffles → butter	1.0474
butter → waffles	1.0474
unch meat → hand soap	1.0471
hand soap → lunch meat	1.0471
individual meals → beef	1.0470
peef → individual meals	1.0470



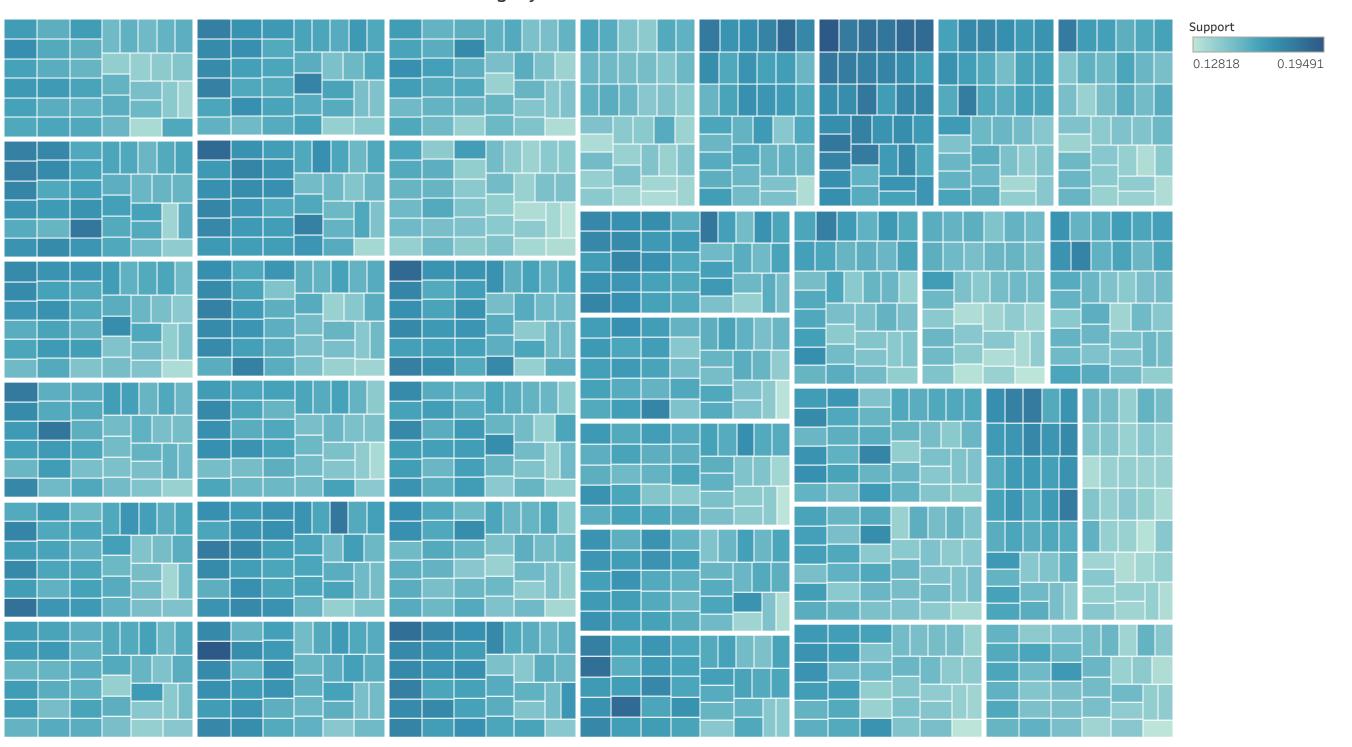




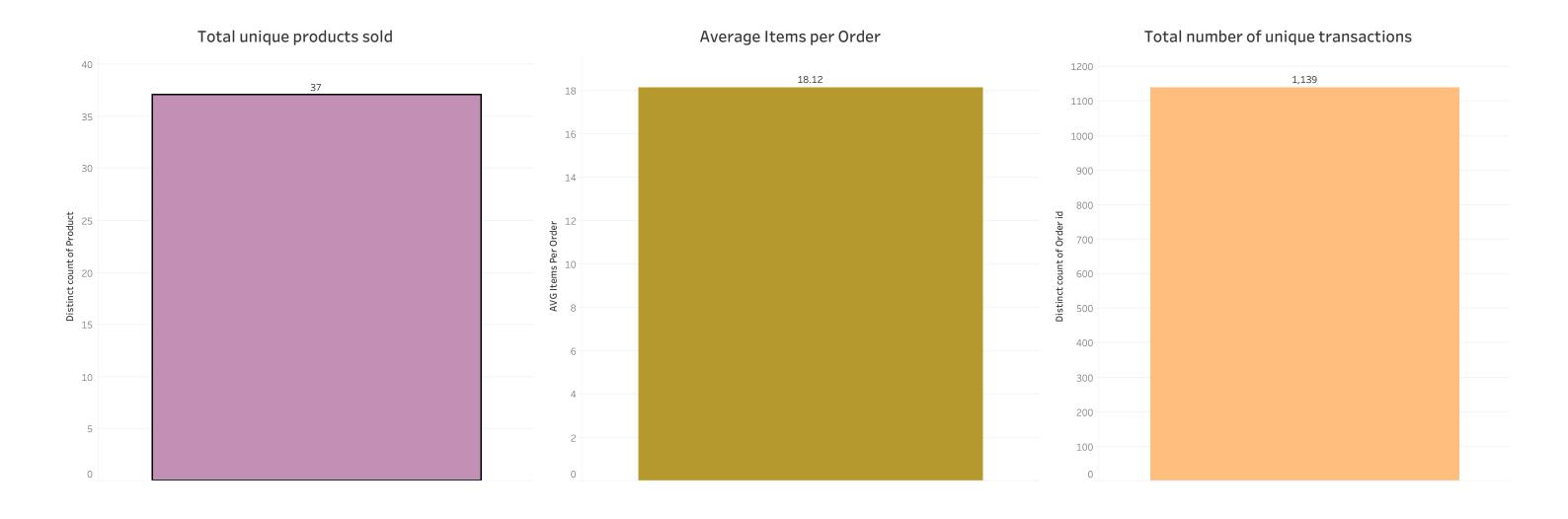


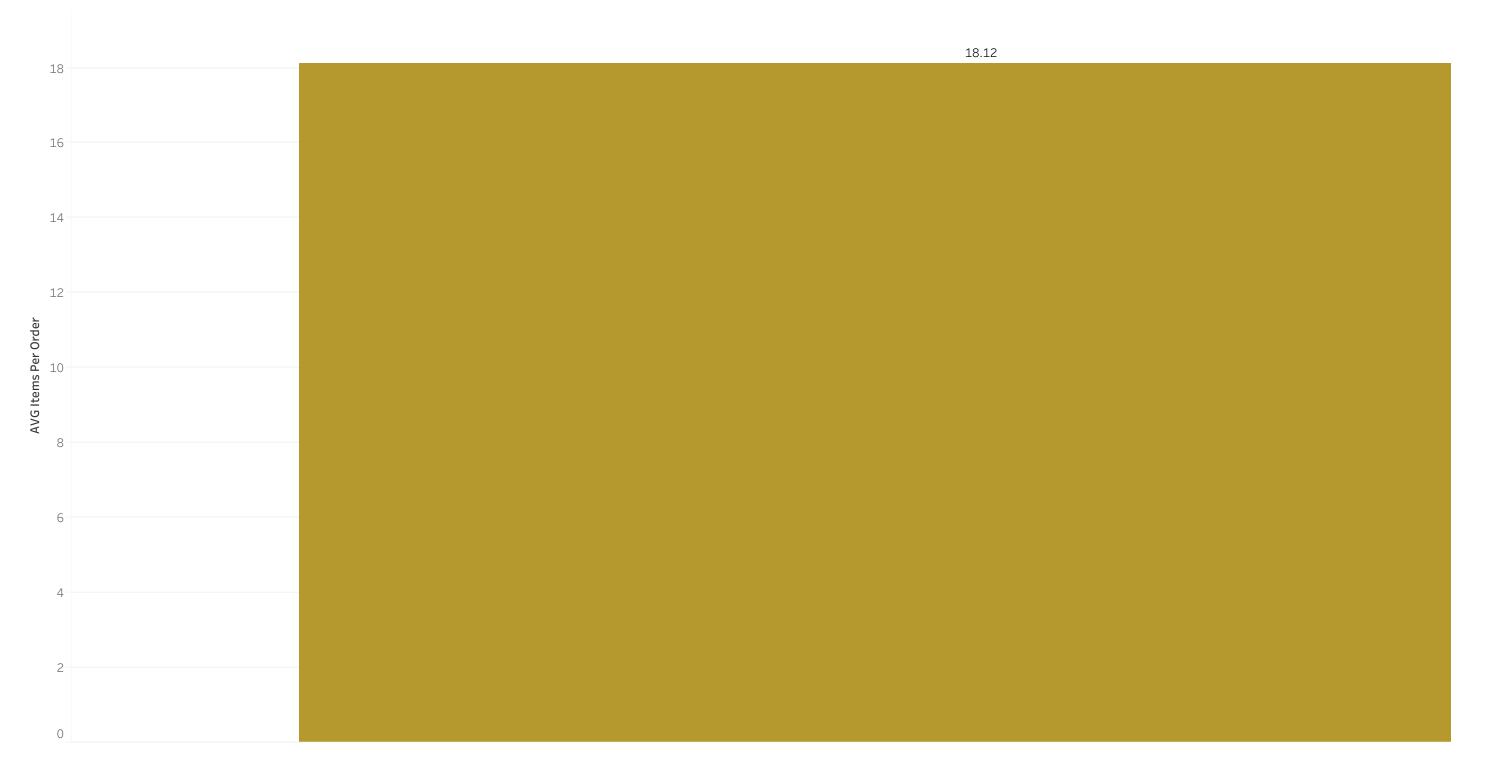


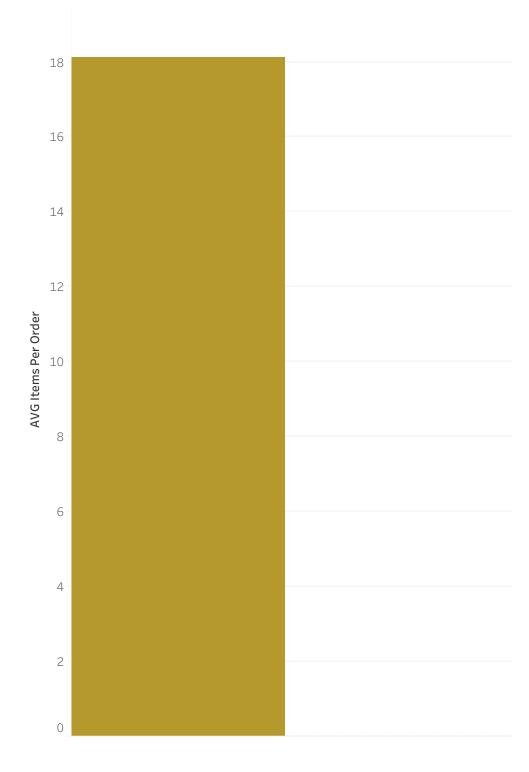
Category-Wise Product Pairs



SUMMARY STATISTICS







Average Items per Order

Sales Trends Over Time

