

# Question1

business_unit	product_name	profit_margin
Nike Official	Nike Air Max 270	0.7294929500950096
Nike Official	Nike Air Force 1	0.4182444458888887
Nike Official	Nike Tanjun	0.57049231
Nike Official	Nike Dri-FIT Tee	0.51672076
Nike Official	Nike Legend Tee	0.445783336
Nike Official	Nike Pro Tights	0.12384285942857147
Nike Official	Nike Sportswear	0.47662500075
Nike Official	Nike Benassi	-0.22167499599999996
Nike Official	Nike Gym Sack	0.7021333446
Nike Official	Nike Court Royale	0.5032000007826087

160 affected2.981 s

# Question 4

product_name	may21_split	profit_margin
Nike Air Force 1	Post-May	-0.795320936579122
Nike Air Force 1	Pre-May	-0.680726755563958
Nike Air Max 270	Post-May	0.6181337564941848
Nike Air Max 270	Pre-May	0.617343928833277
Nike Benassi	Post-May	-0.730262996881601
Nike Benassi	Pre-May	-0.7538128139866045
Nike Court Royale	Post-May	-0.10267152746761483
Nike Court Royale	Pre-May	-0.04533696939708266
Nike Dri-FIT Shorts	Post-May	0.09996625516166933
Nike Dri-FIT Shorts	Pre-May	0.11604117644866478

220 affected0.255 s

# Question2

name	profit_margin
New Orleans LA	0.3131200012666667
Philadelphia PA	0.5032000007826087
Memphis TN	0.6669595345548056
Mobile AL	0.6291555593111111
Chicago IL	0.6368000009180327
Los Angeles CA	0.6038268296585366
Houston TX	0.47802761963636364

# Question 5

product_name	profit_margin
Nike Dri-FIT Shorts	0.10245947711189198
Nike Tanjun	-0.06044666174824453
Nike Legend Tee	0.27702684051410165
Nike Pro Tights	-0.16816534670875122
Nike Air Max 270	0.6180158331737088
Nike Gym Sack	0.6718528763710615
Nike Sportswear	0.33083249841845946
Nike Benassi	-0.7337917218633918
Nike Air Force 1	-0.7792531430837805
Nike Dri-FIT Tee	0.4569432836182219

160 affected1.203 s

# Question3

product_name	profit_margin
Nike Pro Tights	-0.16816534670875122
Nike Dri-FIT Shorts	0.10245947711189198
Nike Legend Tee	0.27702684051410165

# Question 6

business_unit	product_name	profit_margin
Nike Vintage	Vintage Nike Air Max 1	0.795128381476387
Nike Vintage	Vintage Nike Dunk	0.6982545619403848
Nike Official	Nike Gym Sack	0.6718528763710615
Nike Vintage	Vintage Nike Air Jordan Tracksuit	0.6267292750999451
Nike Official	Nike Air Max 270	0.6180158331737088
Nike Vintage	Vintage Nike Windrunner Jacket	0.5926666666666692
Nike Vintage	Vintage Nike Waffle Trainer	0.5131135531135567
Nike Official	Nike Dri-FIT Tee	0.4569432836182219
Nike Official	Nike Sportswear	0.33083249841845946
Nike Official	Nike Legend Tee	0.27702684051410165

100 affected1.036 s