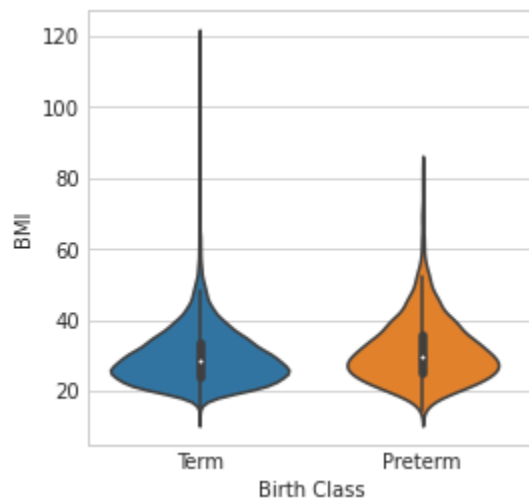


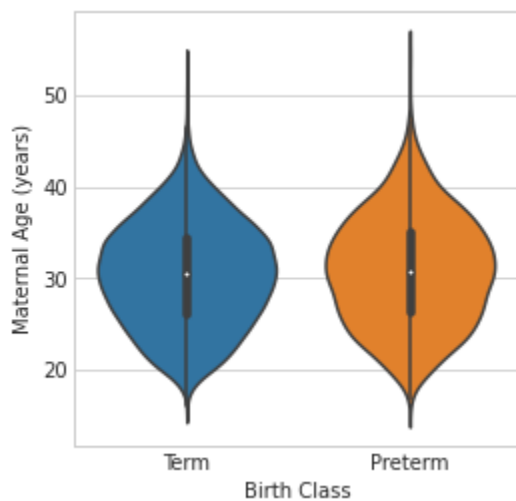
Lifestyle Exploratory Data Analysis

Continuous Variables & Birth Class

BMI

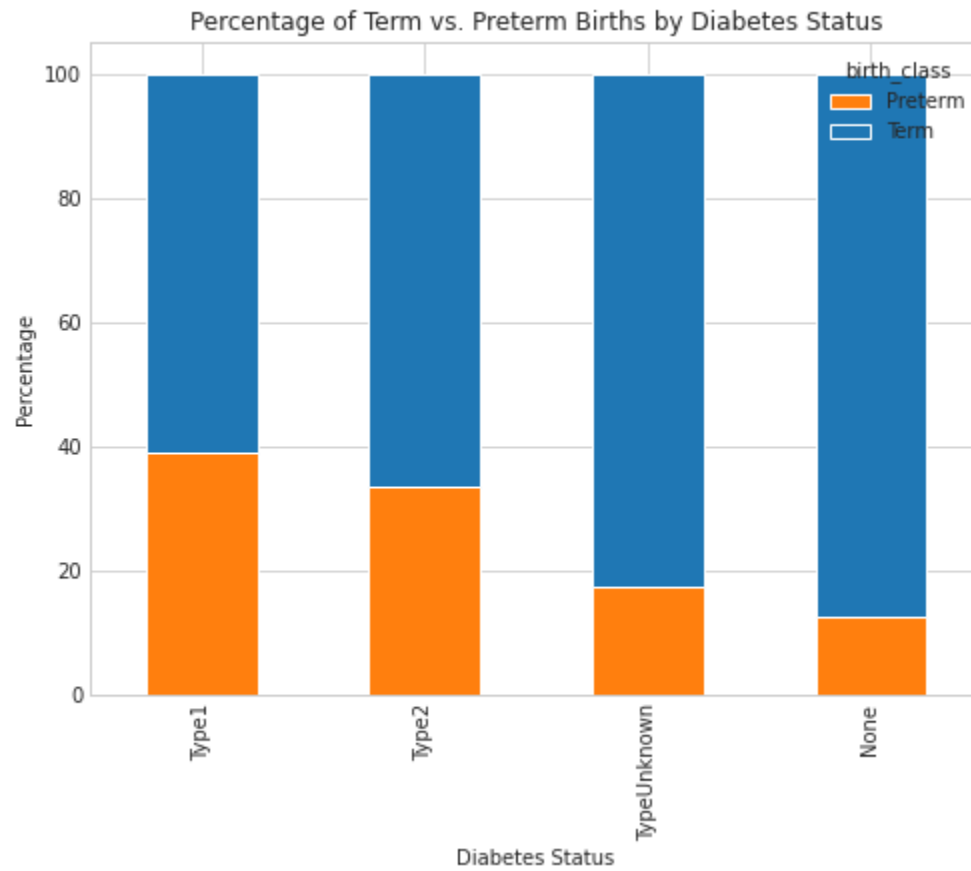


Maternal age

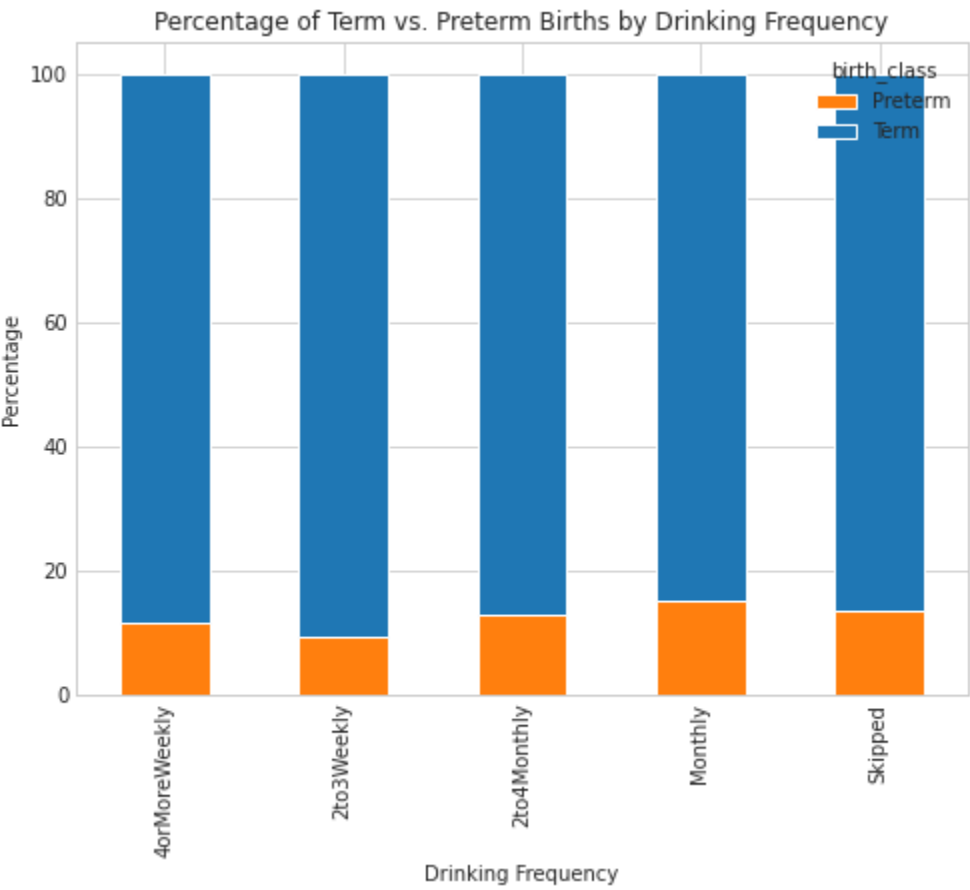


Categorical Variables & Birth Class

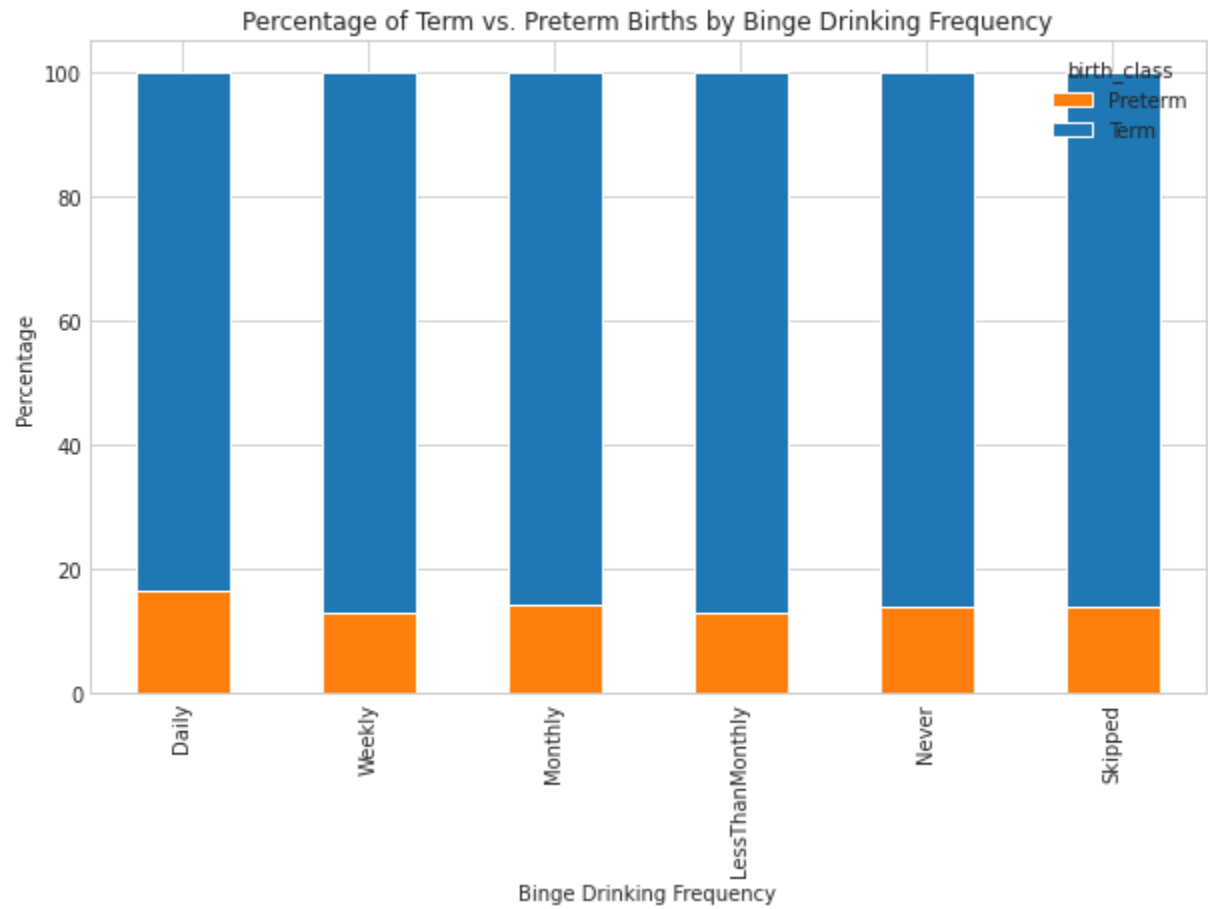
Diabetes



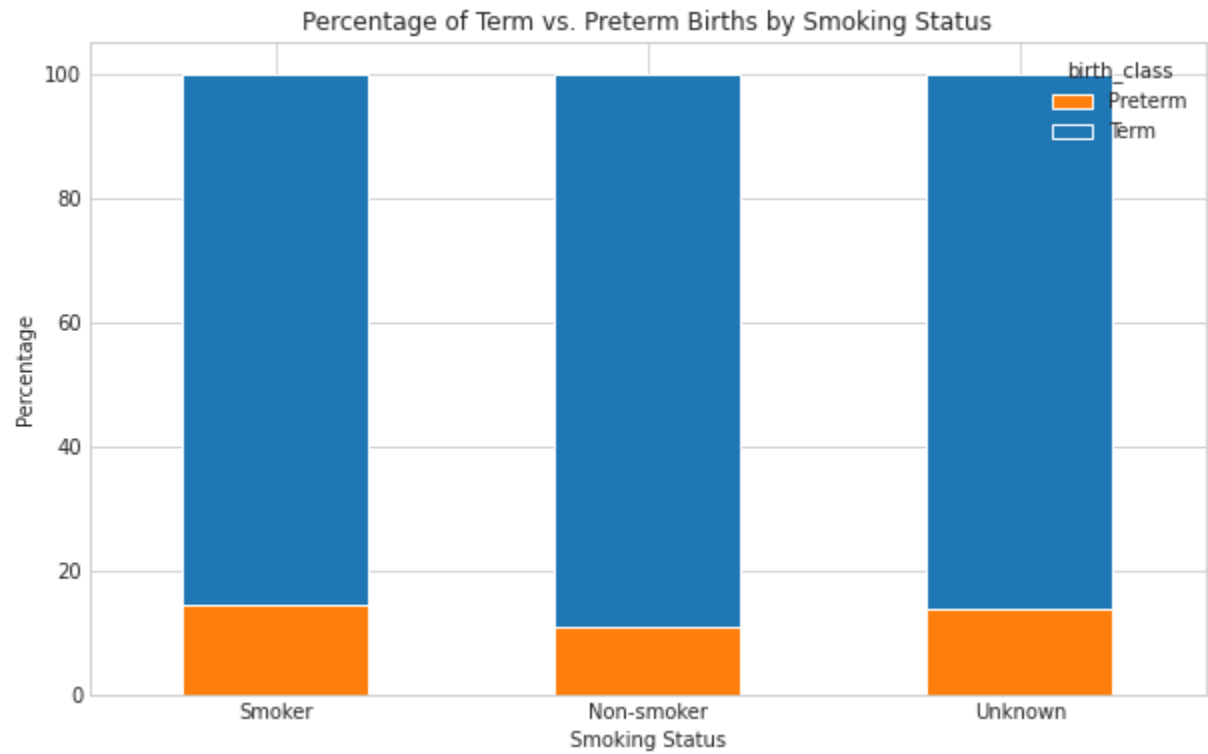
Drinking frequency



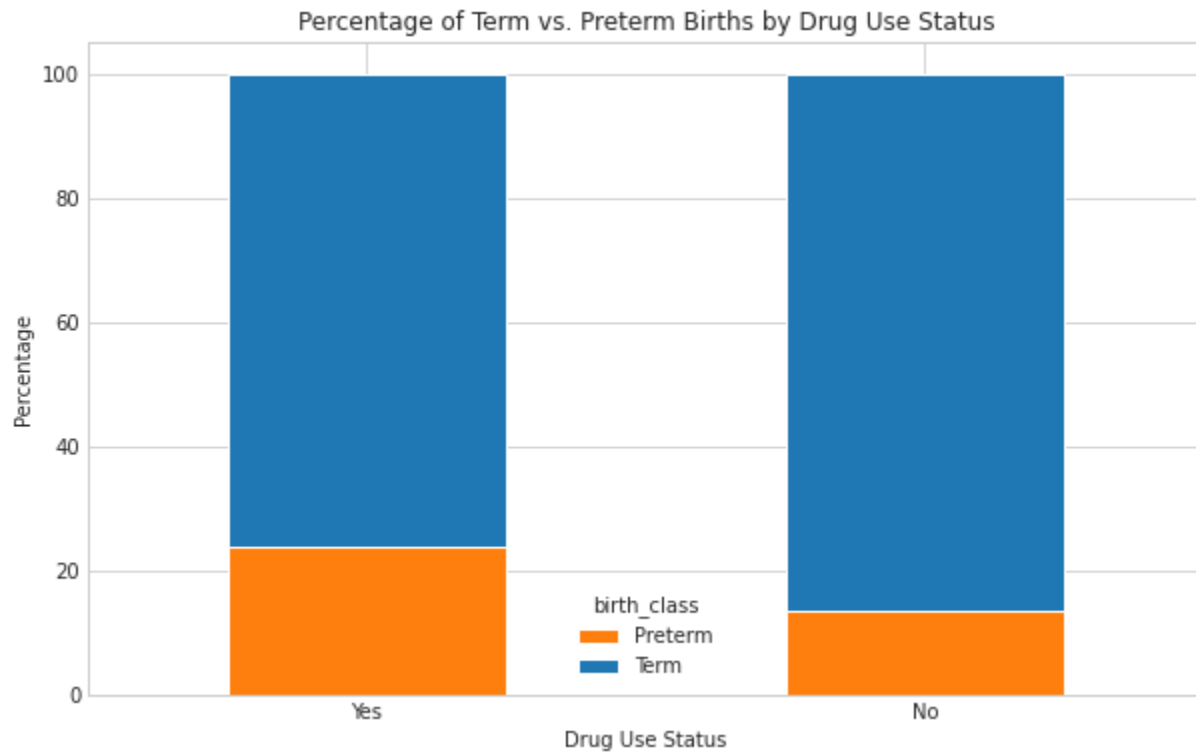
Binge drinking



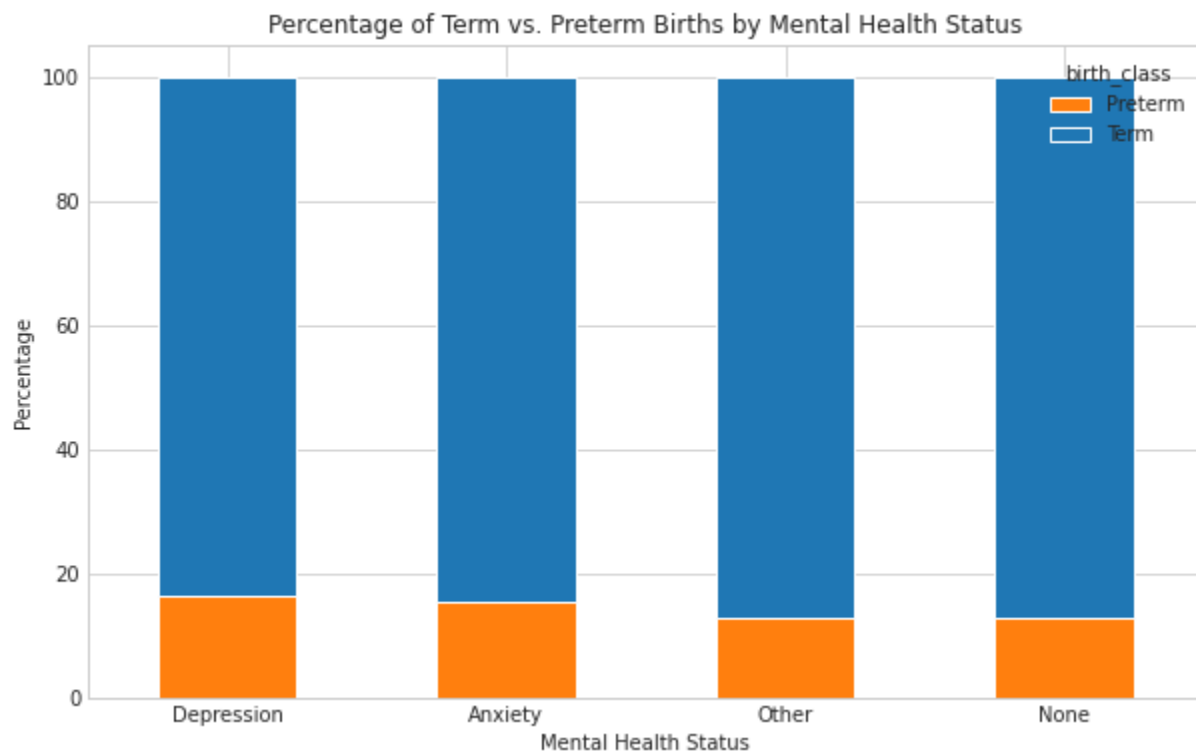
Smoking



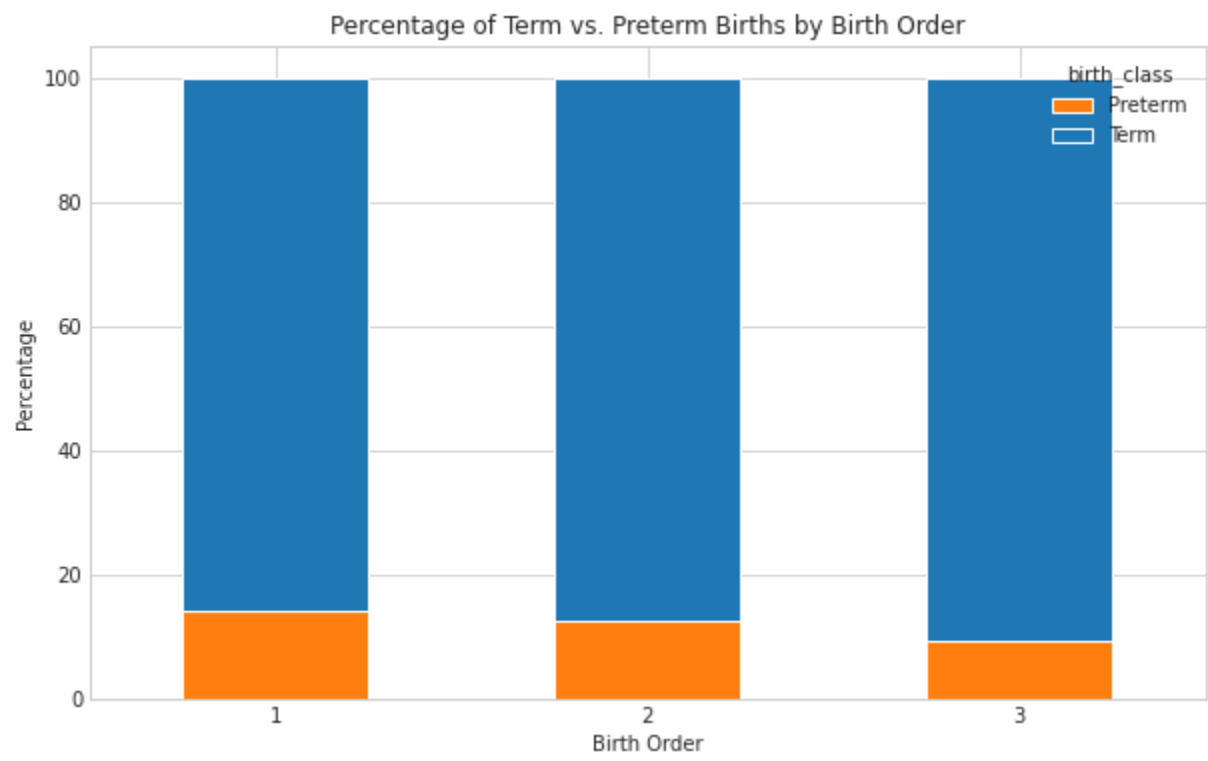
Drug use



Mental health



Birth order



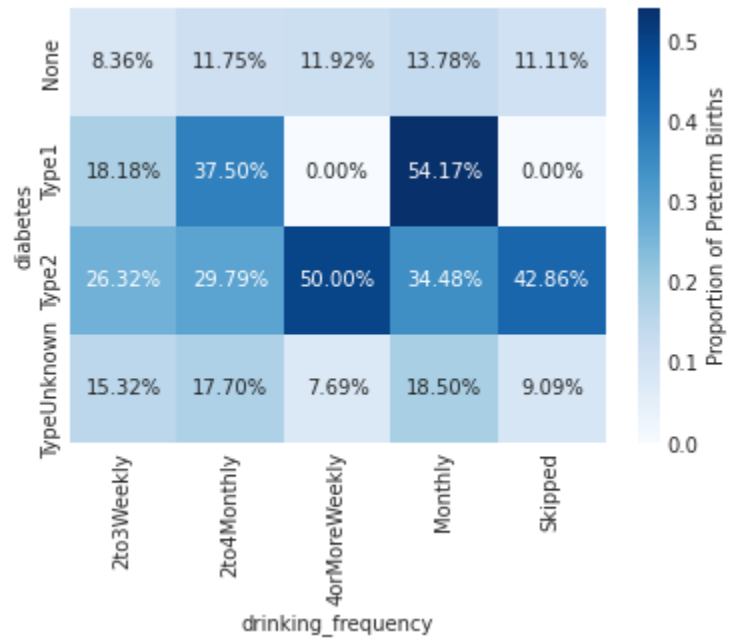
Interactions

Chi-square test for interaction between categorical variables

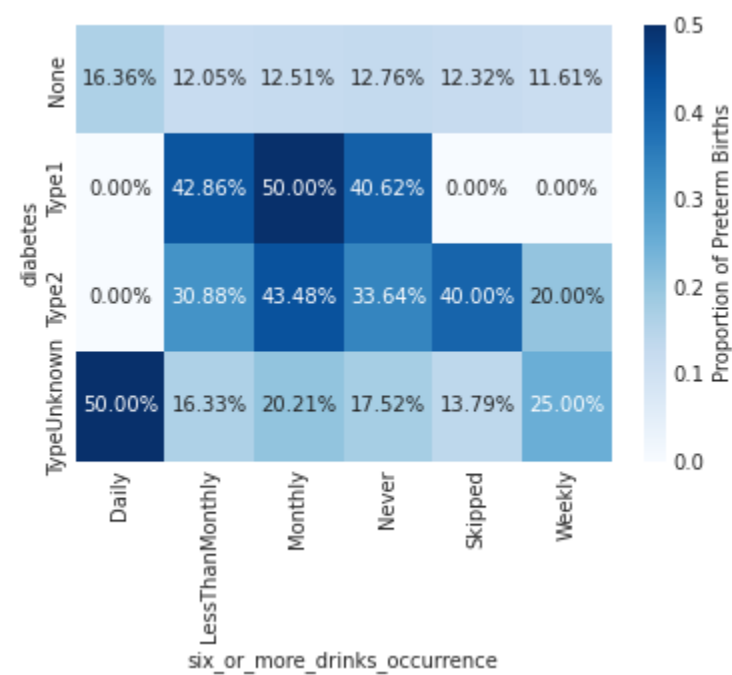
Variable 1		Variable 2	Chi-square	P-value
diabetes		drinking_frequency	156.834251	3.464939e-24
diabetes	six_or_more_drinks_occurrence		136.358447	1.716123e-18
diabetes		smoking_status	135.856757	1.131753e-23
diabetes		drug_use	146.849694	1.861489e-28
diabetes		mental_health	158.838306	4.194205e-26
diabetes		birth_order	128.748131	3.118796e-22
drinking_frequency	six_or_more_drinks_occurrence		51.430880	4.458313e-03
drinking_frequency		smoking_status	47.105875	1.846566e-05
drinking_frequency		drug_use	57.095095	4.846006e-09
drinking_frequency		mental_health	57.973428	8.059311e-06
drinking_frequency		birth_order	37.122322	7.069297e-04
six_or_more_drinks_occurrence		smoking_status	14.372328	6.405934e-01
six_or_more_drinks_occurrence		drug_use	31.961909	7.735369e-04
six_or_more_drinks_occurrence		mental_health	45.097454	3.866771e-03
six_or_more_drinks_occurrence		birth_order	12.697487	6.947345e-01
smoking_status		drug_use	28.663915	2.698664e-05
smoking_status		mental_health	41.057502	2.355743e-05
smoking_status		birth_order	18.851987	1.567158e-02
drug_use		mental_health	33.379954	2.249152e-05
drug_use		birth_order	27.081664	5.499114e-05
mental_health		birth_order	27.582491	3.749356e-03

Heatmaps (normalized) for interaction effect on birth class

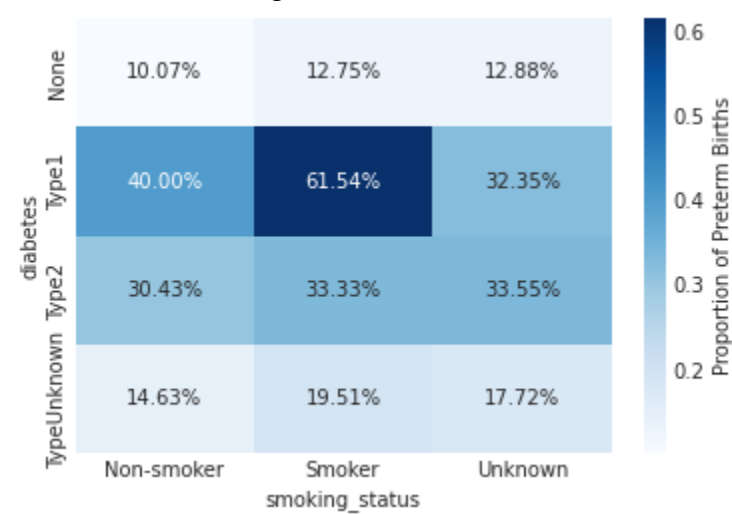
Diabetes & drinking frequency



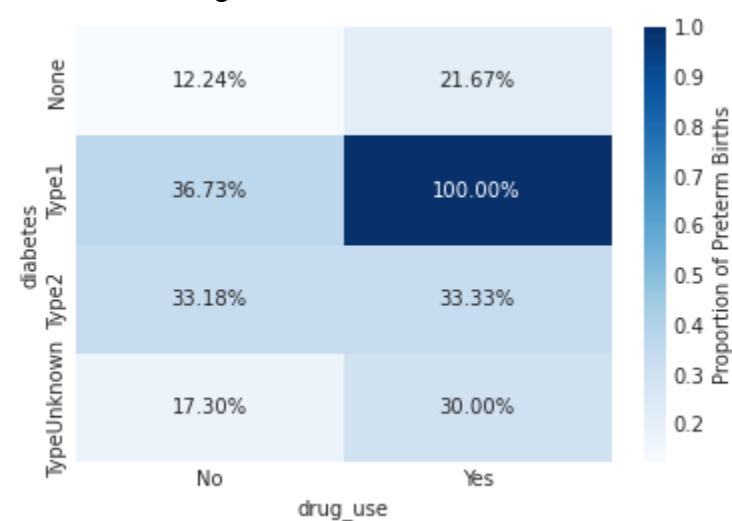
Diabetes & binge drinking



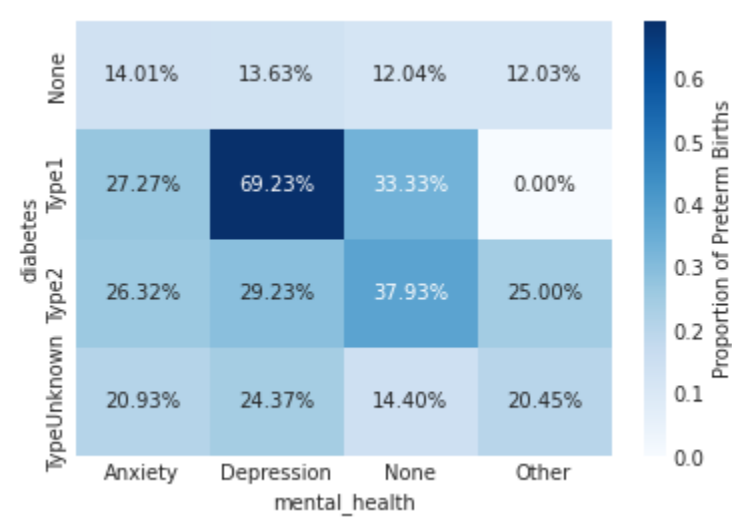
Diabetes & smoking status



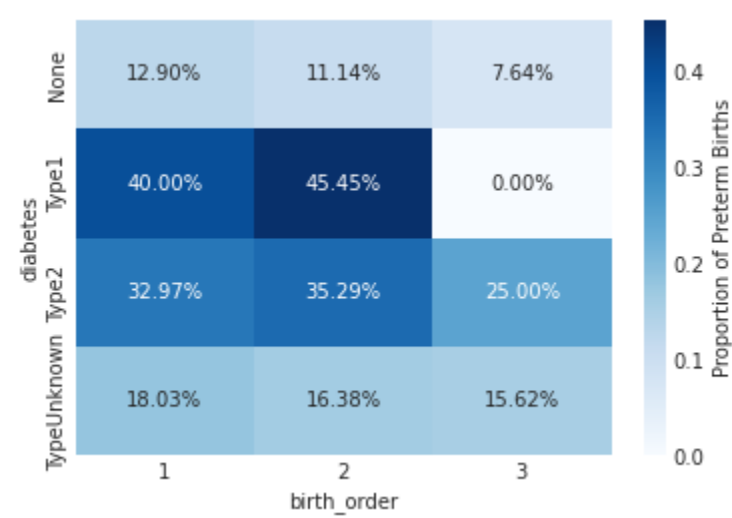
Diabetes & drug use



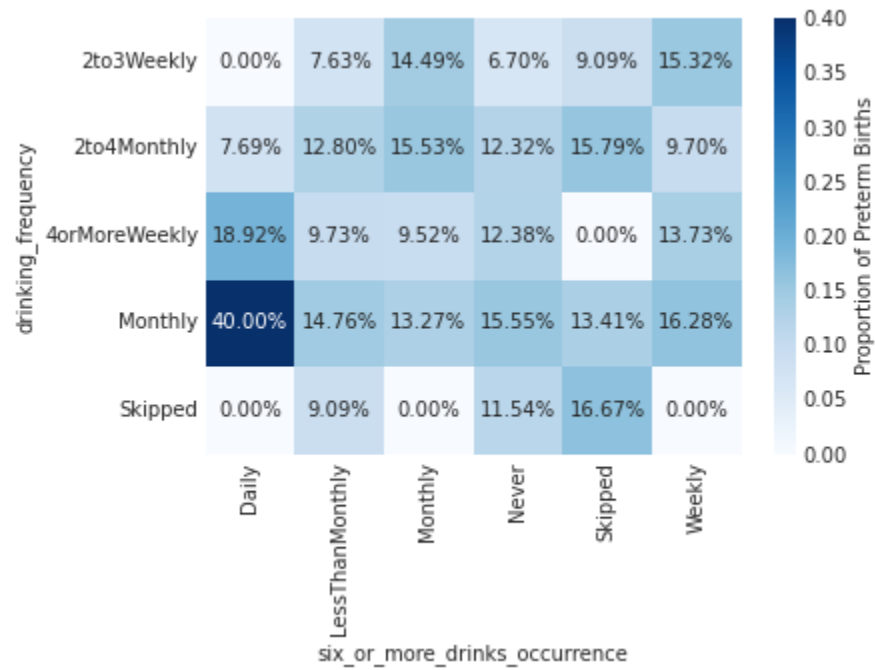
Diabetes & mental health



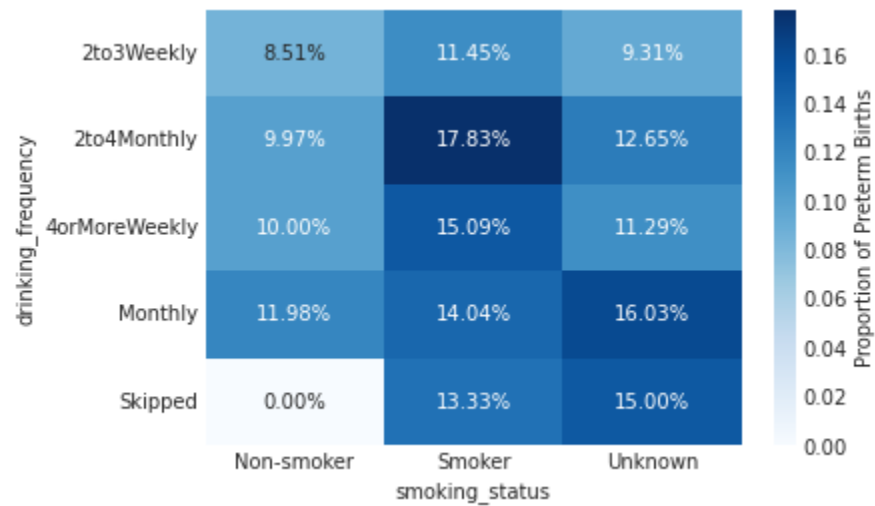
Diabetes & birth order



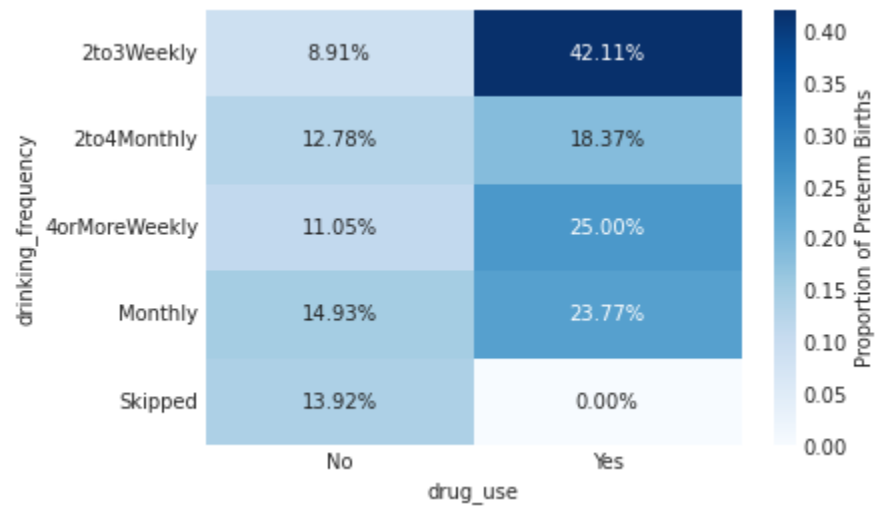
Drinking frequency & binge drinking



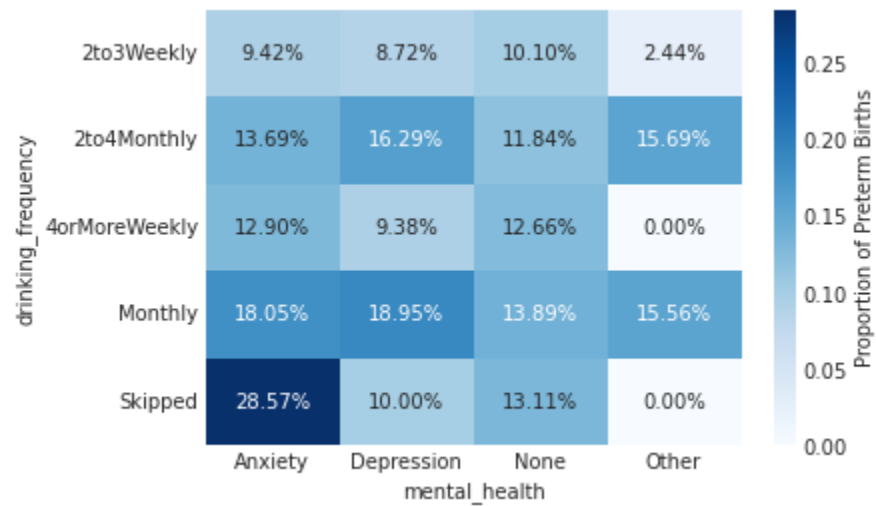
Drinking frequency & smoking status



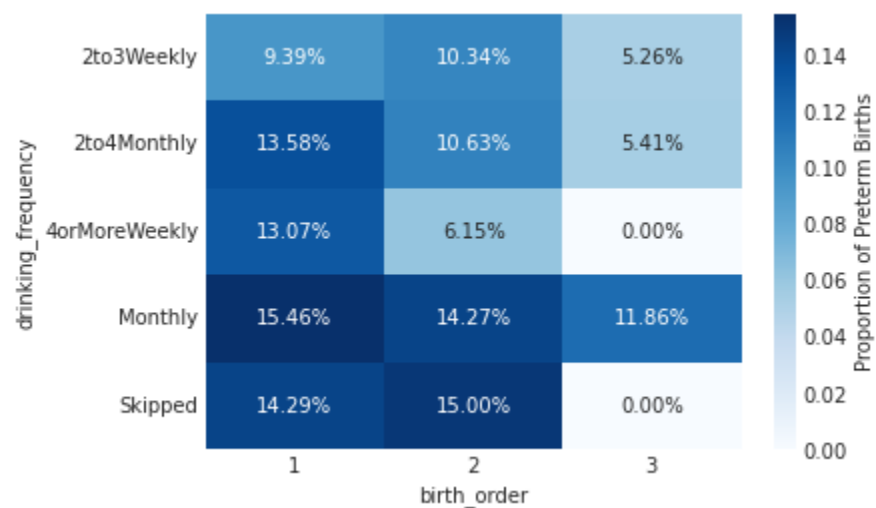
Drinking frequency & drug use



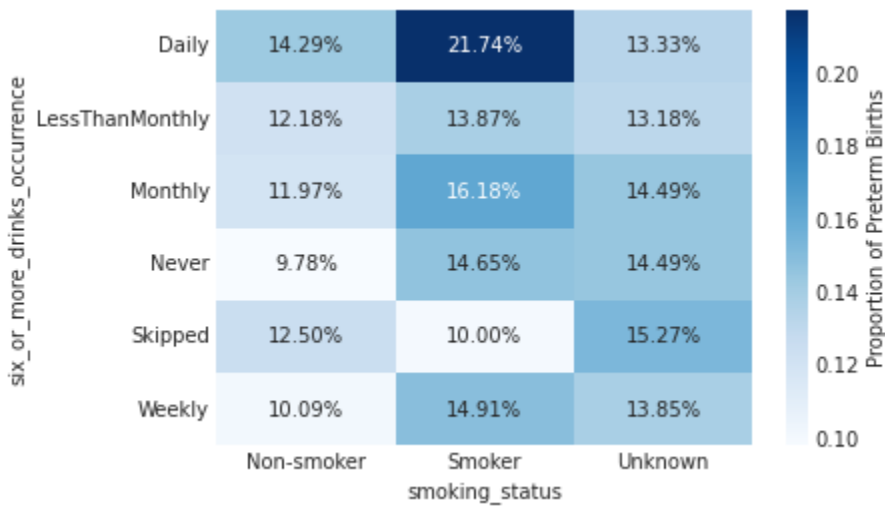
Drinking frequency & mental health



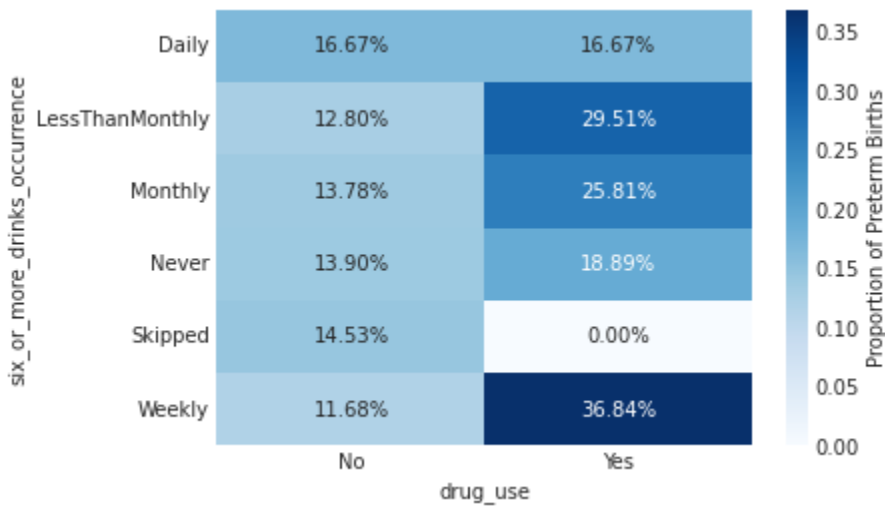
Drinking frequency & birth order



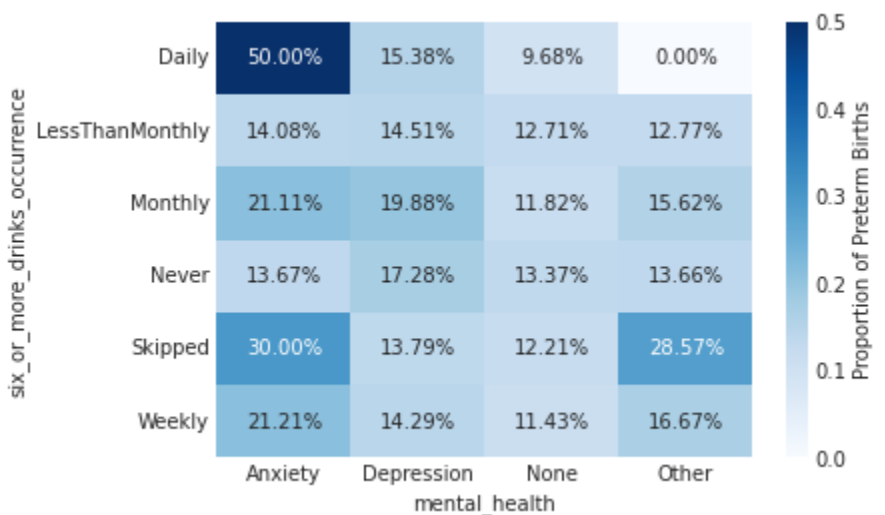
Binge drinking & smoking status



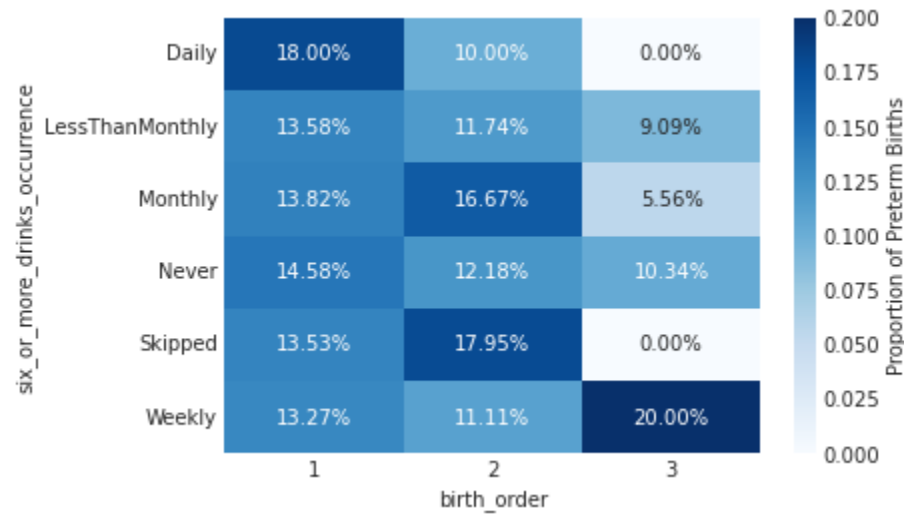
Binge drinking & drug use



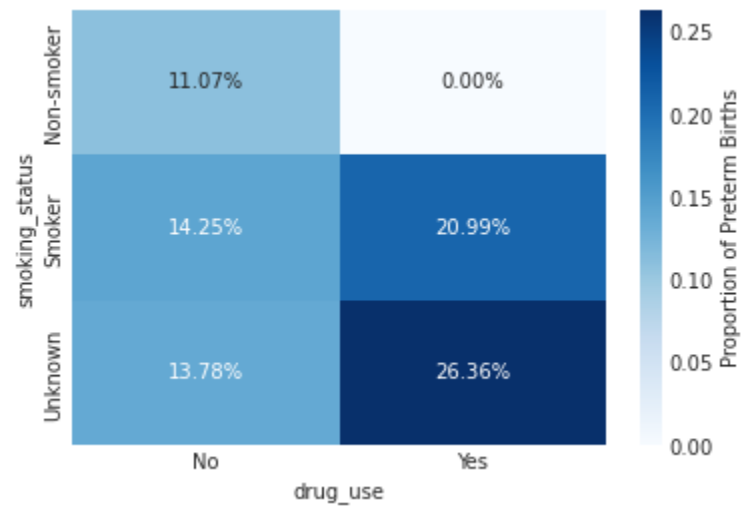
Binge drinking & mental health



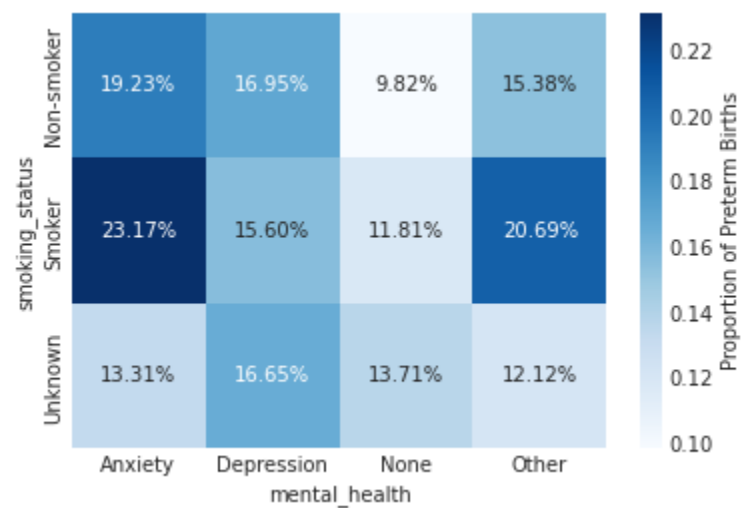
Binge drinking & birth order



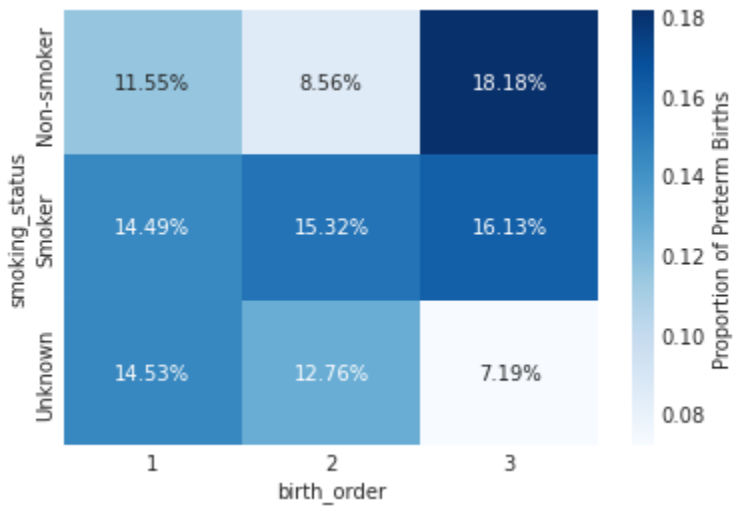
Smoking status & drug use



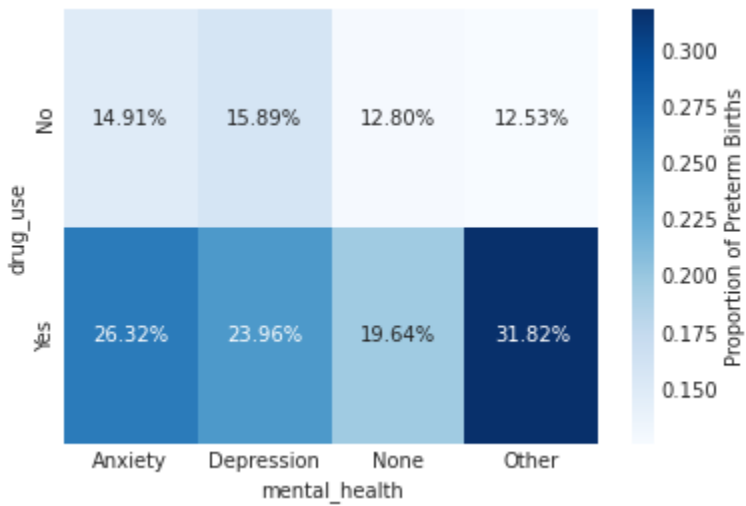
Smoking status & mental health



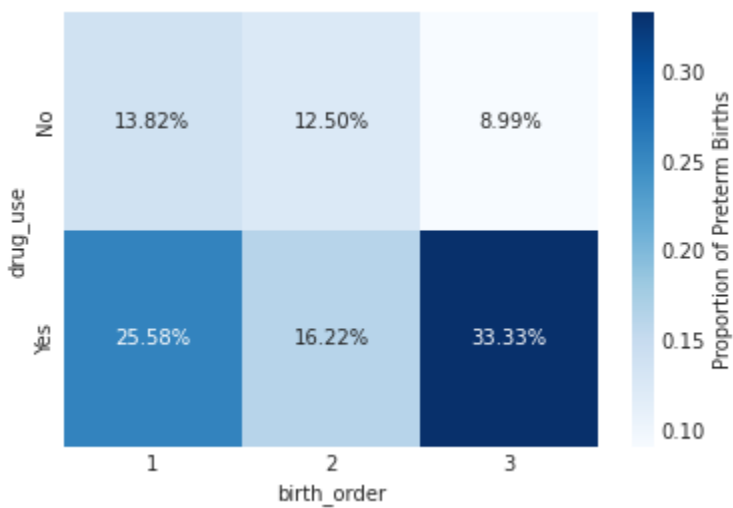
Smoking status & birth order



Drug use & mental health



Drug use & birth order



Mental health & birth order

