## Baby Birth Weight

Assignment 2: Hypothesis Testing (T-Test)

A baby's weight is dependent on baby's gender AND on mother's color, marital or smoker status

- T-test results ran between dependent variable Weight and the following independent boolean variables confirm that we reject the Null Hypothesis -> H0: u1=u2
- We conclude that the samples came from populations with unequal variances (P value of Equality of Variance is 0.001% < Confidence Interval 5%). Thus, weight mean DOES vary depending on the following variables:
  - ✓ Black
  - ✓ Married
  - ✓ MomSmoker
  - ✓ Boy
- The sample is normally distributed
- The relationship between Weight and bi-categorical independent variables CigsPerDay, MomWtGain, Visit, MomEdLevel must be evaluated using different statistical tests