

Topic Proposal, 5%, due February 15 before class.

Each team will submit one proposal on Blackboard. Use 150-200 words to describe a) the research topic, b) the SMART question(s) of your research (you can still change them afterwards), c) the source of your data set(s) and how many (roughly) observations, and d) the link to your team's GitHub repo.

Ask SMART Questions!

Specific.

Measurable: Quantifiable? Data-driven? Bias? Measure the bias?

Achievable: Cost/time -- computing power, personnel, capability, resources...

Relevant: Does it address a need or extend a research area?

Time-oriented: establishing a deadline.

DATS 6101 Topic Proposal

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Our research topic is the effect of sexual education program state laws on teen pregnancy. Teen pregnancy prevention has been a major focus at both the national and state levels with two competing ideas: Comprehensive Sexual Education and Abstinence Education. Regardless, teen pregnancy rates for girls ages 15 to 19 have been declining steadily over the past 30 years. For our research question, we want to find out: did sexual education laws lead to an increase or decrease in teen pregnancy rates from 1990 to 2019 by state in the US? The dataset we will use is "U.S. and State Trends on Teen Births, 1990–2019" from the Centers for Disease Control and Prevention, which contains 4681 observations and 8 covariates. This dataset assembles all final birth data for females aged 15–17, 15–19, and 18–19 for each of the 50 states in the United States from 1990 to 2019. We can use this dataset to investigate differences in birth and birth rate between states, as well as the relationship between state birth rate and US birth rate. We can also add in factors like sex education programs, abstinence education provisions, etc. to answer this research question.

Dataset link: <https://www.cdc.gov/nchs/data-visualization/teen-births/>

Potential additional factor- Abstinence Education Provision:

<https://www.ecs.org/clearinghouse/73/09/7309.pdf>

Team1 GitHub repo: [https://github.com/Akamemz/DATS6101\\_Project-1.git](https://github.com/Akamemz/DATS6101_Project-1.git)