

University of California, Davis
Department of Statistics
Final Project– Spring 2021

Course Title: Applied Statistical Methods:	Sections: B01 and B02.
Regression Analysis	Deadline: 6/9/2021, 5:00 p.m.
Teacher's name: Jairo Fúquene-Patiño	Total marks: 100
Student's name: _____	
Course Code: STA 108	

Q.1) The data set (Demographic.txt) provides selected county demographic information with 17 variables for 440 of the most populous counties in the United States. Each line of the data set has an identification number with a county name and state abbreviation and provides information on 14 variables for a single county. Counties with missing data were deleted from the data set. The information generally pertains to the years 1990 and 1992. For each geographic region, regress the number of serious crimes (Y) against at least 5 predictor variables (you need to choose the predictors). Propose the exploratory analysis using the number of serious crimes (Y) and predictors. **Hint:** consider `pairs(...)`, `boxplot(...)` and `summary(...)` in R.