San José State University
Department of Applied Data Science

DATA 201
Database Technologies for Data Analytics

Spring 2025
Section 21
Instructor: Ron Mak

Assignment #10

Assigned: Thursday, April 10
Due: Thursday, April 17 at 5:30 pm
Individual assignment, 100 points max

Stored procedures for multiple regression analyses

Create a stored procedure for the **Home Prices** database. Its OUT parameters should be the regression coefficients β_0, β_1, and β_2. Make a call to your stored procedure and display the returned regression coefficients. Your stored procedure can call other "helper" stored procedures. $\hat{y} = \beta_0 + \beta_1 x_1 + \beta_2 x_2$

Create a stored procedure for the **Three Independents** database. Its OUT parameters should be the regression coefficients β_0, β_1, β_2, and β_3. Make a call to your stored procedure and display the returned regression coefficients. Your stored procedure can call other "helper" stored procedures. $\hat{y} = \beta_0 + \beta_1 x_1 + \beta_2 x_2 + \beta_3 x_3$

What to submit

Two Jupyter notebooks, one for the Home Prices database and one for the Three Independents database. Each notebook should contain the creation of a stored procedure and the results from a call to the procedure.

Rubric

Criteria	Max points

• **Home Prices**
  ○ Create stored procedure
  ○ Call and display results
	• **40**
	  ○ 30
	  ○ 10

• **Three Independents**
  ○ Create stored procedure
  ○ Call and display results
	• **60**
	  ○ 50
	  ○ 10