

CIT 225 Lesson 0

Introduction

Tell us about you

- What's your name?
- What Technology Program are you in?
- What do you hope to learn?

A bit about me

- I'm a geographer by education and focused on geographic information systems (GIS) and spatial statistics.
- Data is one of my passions. I don't need to be hear, I actually want to be here.
- I've been doing data analytics and engineering professionally for 10+ years.
- I use SQL and Python on a daily basis.
 - If we get through everything we need to cover, hopefully we'll get into merging the two at the end of the semester.

Expectations: You're Grownups

- Attendance matters, unless there are extenuating circumstances, if I'm here and I expect you here.
- Be respectful of your classmates and I.
- You're here to learn, so be engaged: ask questions, participate, help each other!
- Please don't use your phones in class, I know you were born with them as an appendage, but there is a time and place to use them and it's not here.

Grading

See the syllabus.

What We'll Cover at 10,000 feet

- Introduction to databases: what they are, how they work and how to build and use them.
- Theory and Practice: I want to make sure that with theory you can understand the practical application. This connection is critical!
- Data Modelling and Database Design: tying together business and technology.
- SQL: what is SQL, how do I use it, why has this language been around for 50+ years?

Hands On

- Once we hit week 3 this class will start to get hands on.
- We'll create environments in vSphere and we'll use them throughout the remainder of the semester.
- The goal and hope is that we'll not just be hands on for lab days, but also for our regular lecture days.

Is there a book for the course?

- Yes and hey look the interwebs has [it](#)!

What Software will we use?

- vSphere
- [Git](#) & [Github](#)
 - Code (or the bones of code) will be here
 - Lectures will be here as pdfs and also written in Markdown (.md) and converted to slides using [MARP](#)
- MariaDB
 - This is a fork of MySQL (owned by Oracle)

If you do what you're supposed to

- You'll learn and hopefully have fun!
- You'll be prepared for your courses next semester that build off of this!
- If you give it 110% I might even agree to be a reference for a job or college application!