0. Course Introduction
Introduction to PostgreSQL

LOGISTICS

Class Hours:

- **Instructor will provide class start and end times.**

- **There will be regular breaks in class.**

Telecommunication:

- **Turn off or set electronic devices to silent (not vibrate)**

- **Reading or attending to devices can be distracting to other students**

- **Try to delay until breaks or after class**

INSTRUCTOR – ROD DAVISON

- Involved in the technology industry since 1972

- Academia (theoretical mathematics, linguistics, cognitive science)

- Artificial Intelligence R&D and product development

- Software Development:small products to large scale systems development

- Data Analytics: Social Research, experimental design. Market Research, Project Manager and Research Director

- Quality and Testing, Business Analysis, Consulting and training

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INTRODUCTIONS

- Briefly, share with us your:

  - Name you prefer to use in class

  - Area of professional expertise (DBA, developer, tester, etc.)

  - Current job responsibility if relevant

  - Database experience

  - Level of familiarity with PostgreSQL

  - Any specific learning objectives or goals you might have for the class

- Also…

  - Please ask any questions you might have about the class

CLASS MATERIALS

- There are two GitHub repositories provided

- The first contains all the course materials

  - Located at https://github.com/ExgnoRepos/2421-Postgresql-Sept-9

  - This includes the markdown materials, slides, labs and additional resources

  - The repository will be available until October 11, 2024

  - Additional material may be added during the class if required

  - We will also be making use of the official PostgreSQL documentation

- The second contains a copy of the labs

  - Located at https://github.com/ExgnoRepos/2421-Postgresql-Labs

  - This repository will also be available until October 11, 2024

  - This is a convenience repository so that you can clone just the labs into your VM

LAB ENVIRONMENTS

- Each student will have a dedicated Windows 10 VM with PostgreSQL already installed

  - The VMs will be available continuously until the end of the last day of class

  - The Windows VMs will also be used for remote access to a Unix PostgreSQL server

  - You will be assigned usernames for the remote server

- There is no need to install anything on your own computer for the class

- The first lab will walk through how to access the VMs

AGENDA

- Introduction to PostgreSQL

- psql: The PostgreSQL client

- Installation and Setup

- Managing and configuring tables & views

- Performance optimization

- Monitoring

- Backup and Recovery

- High Availability and Replication

- Upgrades

- Migration overview

CLASS PROTOCOLS

- Think of this as a graduate level seminar where the instructor is also the facilitator of contributions made by the group.

  – You and your fellow students represent a collective body of knowledge and experience

- You will get the most out of this class by being interactive, and proactively sharing your insights, experiences and opinions on the material presented.

- Your feedback and questions are always welcomed.

- Speak up anytime.

- Have fun.

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End Module