CMPT 354 - D100 Database Systems I

Instructor(s): TBA

SFU Burnaby

Calendar Objective/Description:
Database Systems I

Instructor's Objectives:
This course will introduce students to the basics of database management systems (DBMS), which includes introducing models of data management, particularly the relational data model. Design tools, database modeling, and query languages like SQL will all be covered as part of familiarizing students with databases and their applications. Due to the remote teaching circumstances of SFU, all lectures, office hours, and exams will be conducted online. This class also requires access to a computer which can install and run a DBMS and stable internet access for lectures and tests.

Prerequisites:
see go.sfu.ca

Topics:
- Entity-Relationship model
- Relational data model
- Relational algebra and calculus
- Introduction to SQL
- Constraints and triggers
- Database Applications Development
- Normalization
- Introduction to NoSQL
- Introduction to OLAP (time permitting)

Grading:
To be discussed as part of the first lecture on course expectations

Recommended Books:

Academic Honesty Statement:
Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student
Conduct Policies (http://www.sfu.ca/policies/gazette/student.html).