CS5200: Introduction to Database Management Systems

Class Info

Course Description

Contact Info

Teaching Assistants

Google Group

Text Book

Software

Expectations

Grading

Course Schedule

Class Info

Term 2018 Summer Instructor Bruce Chhay

Time Thursdays, 6:30-9:30PM

Location 401 Terry Ave N.

Room 143, Pearl

Course Description

From the course catalog.

Contact Info

Instructor:

Bruce Chhay

b.chhay@neu.edu

bruce.chhay@gmail.com

425-233-5271

Appointments available before class, after class, and by request.

Teaching Assistants

Prakash Somasundaram somasundaram.p@husky.neu.edu

Vinay Singh singh.vina@husky.neu.edu

Date/Time TBD

Location: TBD

Google Group

Email: cs5200-2018summer@googlegroups.com

Group: https://groups.google.com/forum/#!forum/cs5200-2018summer/

Add your @gmail.com account (@husky.neu.edu does not work because it's a domain account).

Blackboard

https://northeastern.blackboard.com/

Wordpress

https://www.northeastern.edu/mscs_online/

Text Book

None.

Software

MySQL Community Server

MySQL Workbench Community Edition

<u>Eclipse IDE for Java EE Developers</u> (you can try the Eclipse Installer, or just install the "Eclipse IDE for Java EE Developers" package; note that you need to install the Java SE Development Kit to run Eclipse, <u>Java SE JDK</u>)

CloverETL Community Edition

Expectations

See Office of Student Conduct and Conflict Resolution.

Grading

25% Midterm

25% Assignments

50% Project

Late submissions are subject to 10% penalty per day

Course Schedule

Academic Calendar

Week	Module	Assignment
1. 05/10	 M1. Relational Databases Data modeling. UML diagrams. Slide deck: http://goo.gl/CDWTvr. 	HW1 (UML) due 05/24: http://goo.gl/B5Ue0Q.
2. 05/17	M2. Design a Relational ModelFunctional dependencies.Normal forms.Slide deck:	PM1 (Definition) due 05/31.
3. 05/24	M3. Implement a Relational Model	HW2 (DB Design and

	 Create tables and insert data. Enforce data integrity. Slide deck: 	Implementation) due 06/07:
4. 05/31	M4. Interact with Data Relational algebra. Fundamental SQL. Slide deck:	PM2 (Relational Model and Data) due 06/14. Demo: PM1
5. 06/07	M5. Advanced SQL • Full SELECT statements. • Functions and procedures. Slide deck:	HW3 (SQL) due 06/14 (before next class): PM3 (Business Insights) due 06/28.
6. 06/14	Midterm review. HW3 (SQL) recap	Demo: PM2
7. 06/21	6:30-9:30PM Midterm exam.	Midterm exam.
8. 06/28	M7. Application Development • JDBC • JSP Slide deck:	HW 4 (JDBC) due 07/12: PM4 (Hello World) due 07/19. Demo: PM3
9. 07/05	M6. Transformation Languages • XSLT, XPath. • XQuery. Slide deck:	HW5 (XSLT) due 07/19:
10. 07/12	M8. Data Warehousing • ETLs. • Analysis and Reporting. Slide deck:	PM5 (Data Warehousing) due 07/26.
11. 07/19	M9. Database Operation	Demo: PM4
13. 07/26	M10. Industry Trends NoSQL, NewSQL. Big Data, Machine Learning. Slide deck:	PM6 (Conclusion) due 08/01 (one day before class). Demo: PM5

14. 08/02	Project presentations Schedule: http://goo.gl/ENQiuN .	Project Presentations.
15. 08/09	(Optional: presentation overflow)	
16. 08/21	Grades available.	