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SCHEDULE

Date	Lecture Topic	Slides	Notes	Video
Aug 26	Course Introduction and the Relational Model <i>(No In-Class Lecture)</i> 📖 Readings: Chapters 1-2, 6			
Aug 28	Advanced SQL <i>(No In-Class Lecture)</i> 📖 Readings: Chapters 3-5			
Sep 02	Labor Day — No Class			
Sep 04	Database Storage I 📖 Readings: Chapter 10.1-10.2, 10.5-10.6			
Sep 09	Database Storage II			
Sep 11	Buffer Pools 📖 Readings: Chapter 10.5-10.8 🔗 Project Released: Buffer Pool Manager			
Sep 16	Hash Tables 📖 Readings: Chapter 11.6-11.7 🔗 Homework Released: Indexes			
Sep 18	Trees Indexes I 📖 Readings: Chapter 11.1-11.4			
Sep 23	Trees Indexes II 📖 Readings: Chapter 11.1-11.4			
Sep 25	Index Concurrency Control 📖 Readings: Chapter 15.10			
Sep 30	Sorting + Aggregations 📖 Readings: Chapter 12.4-12.5 🔗 Homework Released: Join Algorithms 🔗 Project Released: Hash Index			
Oct 02	Joins Algorithms 📖 Readings: Chapter 12.4-12.6			
Oct 07	Query Execution I 📖 Readings: Chapter 12.1-12.3, 12.7			
Oct 09	Query Execution II			

Date	Readings: Chapter 18	Lecture Topic	Slides	Notes	Video
Oct 14	Query Planning & Optimization I Readings: Chapter 13				
Oct 16	Mid-Term Exam		—	—	—
Oct 21	Query Planning & Optimization II Readings: Chapter 13 Project Released: Query Execution				
Oct 23	Concurrency Control Theory Readings: Chapter 14				
Oct 28	Two-Phase Locking Concurrency Control Readings: Chapter 15.1-15.3, 15.9				
Oct 30	Timestamp Ordering Concurrency Control Readings: Chapter 15.4-15.5 Homework Released: Concurrency Control				
Nov 04	Multi-Version Concurrency Control Readings: Chapter 15.6-15.7				
Nov 06	No Class				
Nov 11	Logging Protocols + Schemes Readings: Chapter 16.1-16.7				
Nov 13	Crash Recovery Algorithms Readings: Chapter 16.1-16.8				
Nov 18	Introduction to Distributed Databases Readings: Chapter 17.3-17.5, 19.1-19.6 Homework Released: Distributed Databases				
Nov 20	Distributed OLTP Database Systems Readings: Chapter 17.3-17.5, 19.1-19.6			—	
Nov 25	Distributed OLAP Database Systems Readings: Chapter 19.7-19.9			—	
Nov 27	Thanksgiving — No Class				
Dec 02	Guest Speaker: Shasank Chavan (Oracle In-Memory Databases)			—	
Dec 04	Final Review / Other Systems			—	

Last Updated: Dec 06, 2019

