

6.830/6.814: Database Systems

Spring 2021

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6.830/6.814 lectures are held from 1:00-2:30 pm on Mondays and Wednesdays virtually over zoom.

Monday	Tuesday	Wednesday	Thursday	Friday
feb 15 <i>President's day holiday</i>	feb 16 <i>First day of classes</i>	feb 17 Lec 1: Introduction to Databases	feb 18	feb 19
feb 22 Lec 2: The Relational Model Reading Assignment Assigned: PS 1	feb 23	feb 24 Lec 3: Schema Design Reading Assignment Assigned: Lab 1	feb 25	feb 26
mar 1 Lec 4: Intro to Database Internals Reading Assignment	mar 2 Due: PS 1	mar 3 Lec 5: Database Operators and Query Processing Reading Assignment	mar 4	mar 5
mar 8 <i>Student's holiday</i>	mar 9 Monday's schedule Lec 6: Indexing and Access Methods Reading Assignment Assigned: Lab 2 Assigned: PS 2	mar 10 Lec 7: Database Layout for Analytic Databases Reading Assignment Due: Lab 1 Due: Project teams (6.830 only)	mar 11	mar 12
mar 15 Lec 8: Join Algorithms Reading Assignment	mar 16	mar 17 Lec 9: Query Optimization Reading Assignment Assigned: Lab 3	mar 18	mar 19 ADD DATE Due: Lab 2
mar 22 <i>Student's holiday</i>	mar 23 <i>Student's holiday</i>	mar 24 Lec 10: Query Execution in Main Memory DBMS Reading Assignment Due: Project proposals (only if doing final project, not need for programming competition)	mar 25	mar 26
mar 29 Lec 11: Learned Indexing Reading Assignment Due: PS 2	mar 30	mar 31 Quiz 1	apr 1	apr 2
apr 5 Lec 12: Transactions And Locking Reading Assignment Assigned: Lab 4	apr 6 Due: Lab 3	apr 7 Lec 13: Optimistic Concurrency Control and Snapshot Isolation Reading Assignment	apr 8	apr 9
apr 12 Lec 14: Recovery Reading Assignment Assigned: PS 3	apr 13	apr 14 Lec 15: Recovery (cont.) Reading Assignment	apr 15	apr 16
apr 19 <i>Patriot's day holiday</i>	apr 20 <i>Student's holiday</i>	apr 21 Lec 16: Distributed Databases Reading Assignment Assigned: Lab 5 (6.814 only)	apr 22 Due: Lab 4	apr 23

Monday	Tuesday	Wednesday	Thursday	Friday
apr 26 Lec 17: Distributed Transactions Reading Assignment Final projects meetings & mid-term reports this week (6.830 only)	apr 27	apr 28 Lec 18: Modern Transactions Reading Assignment	apr 29 DROP DATE	apr 30
may 3 Lec 19: Eventual Consistency Reading Assignment Assigned: Lab 6 (6.814 only)	may 4 Due: Lab 5 (6.814 only)	may 5 Lec 20: MapReduce / Hadoop Reading Assignment	may 6	may 7 <i>Student's holiday</i>
may 10 Lec 21: Cluster Computing Reading Assignment Due: Lab 5	may 11	may 12 Quiz 2	may 13	may 14
may 17 Lec 22: Project/Lab Discussions Reading Assignment	may 18	may 19 Lec 23: Final Project Presentations Reading Assignment Due: Lab 6 (6.814 only) Due: Project (6.830 only)	may 20 <i>Last day of classes</i>	may 21

Last change: May 03 2021.

Questions or comments regarding 6.830/6.814? Send e-mail to the 6.830/6.814 staff at 6.830-staff at mit.edu.

[Accessibility](#)