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 *President's day holiday*	feb 16 *First day of classes*	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 *Student's holiday*	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 *Student's holiday*	mar 23 *Student's holiday*	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 *Patriot's day holiday*	apr 20 *Student's holiday*	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 *Student's holiday*
may 10 **Lec 21**: Cluster Computing **Reading Assignment** ~~Due: Lab 6~~	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 *Last day of classes*	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](#)