Detailed Schedule

Week	Date (mins)		Video (mins)			Subjects	Proj
WK 1	3/16 Mon		Chap 00			Flipped Learning	
						Big Data	
	3/18 Wed	28:10	Chap 01	v 01	34:30	Data, Database, DBMS	
				v 02	50:58	File System, Data Indep., Instance & Schema	
				v 03	02:42	Data Models, DB Languages, DB Users, Architecture	
WK 2	3/23 Mon	50:59	Chap 02	v 01	17:20	Structure/Definition of Relational Model, Attributes	
				v 02	33:39	Relationa Schema/Instance, Keys, Schema Diagram	
	3/25 Wed	31:01		v 03	17:39	Relational Algebra	Proj 1-1
			Chap 06	v 01	13:22	Select / Project / Union / Set Difference	
WK 3	3/30 Mon	43:06		v 02	20:03	Cartesian Product / Rename	
				v 03	23:03	Formal Def, Intersection / Nat Join / Assignment	
	4/1 Wed	40:14	Chap 03	v 01	19:46	SQL, Create/Drop/Alter Table	
				v 02	20:28	Basic Structure - Select / From / Where	
WK 4	4/6 Mon	49:47		v 03	22:27	Rename, Strings, Null	
				v 04	27:20	Aggregate Functions, Nested Query	
	4/8 Wed	53:49		v 05	10:40	Insert, Delete, Update	
			Chap 04	v 01	23:44	Joins - Natural, Inner/Outer	
				v 02	19:25	Integrity Constraints, Authorization	
WK 5	4/11 Sat					SQL Lab	1-1 Due
	4/13 Mon	0:40:04	Chap 07	v 01	15:59	Design Process	
				v 02	24:05	Entity, Relationship, E-R Diagram	
	4/15 Wed					Holiday (Moved to 4/11)	
WK 6	4/20 Mon	0:52:15		v 03	24:40	Mapping Cardinality	Proj 1-2
				v 04	27:35	Extended E-R Features, Weak Entity Sets	
	4/22 Wed	0:24:42		v 05	24:42	Logical Design, Design Issues	
						Design Lab	
WK 7	4/27 Mon	0:29:26	Chap 08	v 01	29:26	1NF, Functional Dependency	
						Reviews	
	4/29 Wed					**Midterm Exam**	
WK 8	5/4 Mon	0:40:13		v 03	40:13	Decomposition	
	5/6 Wed	0:27:47		v 03	27:47	BCNF, Dependency Preservation, 3NF	
WK 9	5/11 Mon	0:45:49		v 04	45:49	Closure of Attribute Sets, Testing for BCNF	
	5/13 Wed	1:03:02	Chap 10	v 01	37:09	Physical Storage, Performance Measures	1-2 Due
				v 02	25:53	RAID	
WK 10	5/18 Mon	0:46:25		v 03	46:25	File org., slotted page, buffer management	
	5/20 Wed	0:54:17	Chap 11	v 01	27:43	Ordered index, dense/sparse, primary/secondary	Proj 1-3
				v 02	26:34	B+-tree: structure, search	
	5/23 Sat	0:42:29		v 03	19:11	B+-tree: insertion	
				v 04	23:18	B+-tree: deletion, B-tree file org.	
WK 11	5/25 Mon	0:57:23		v 05	20:48	Static hashing	
				v 06	27:55	Dynamic hashing - extendable hashing	
				v 07	08:40	Ordered index vs hash, other issues	
	5/27 Wed	0:46:41	Chap 12	v 01	20:53	Query processing, query plan, cost measures	
				v 02	13:27	Selection operations	
				v 03	12:21	External sort merge	
WK 12	6/1 Mon	0:50:12		v 04	17:25	Nested Loop Join	
				v 05	11:13	Hash Join	
				v 06	21:34	Materialization vs pipelining, cost of expressions	
	6/3 Wed	0:51:45	Chap 14	v 01	31:10	Transactions, ACID	1-3 Due
				v 02	20:35	Transaction states, schedules	
WK 13	6/8 Mon	0:56:36		v 03	29:08	Serializability, recoverable/cascadeless sched.	Proj 2
			Chap 15	v 01	27:28	Concurrency control, 2PL, strict/rigorous 2PL	
	6/10 Wed					**Final Exam**	
WK 14	6/15 Mon					Moved to 5/23	
WK 15		1:11:54	Chap 16	v 01	17:27	Atomicity & durability, data access	
				v 02	21:36	Log-based recovery, undo & redo, checkpoint	
				v 03	32:51	Transaction rollback, recovery with concurrent transaction, WAL	Due 6/22