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| **This is what you’ll learn to do** | **This is how you’ll learn it** | **This is what will show you’ve learned it** |
| 1. Be able to create an Entity-Relationship diagram for any application (3,5) | By working individually and in teams to create E-R diagrams | A group presentation, and results from the midterm exam |
| 1. Create Relational models (tables), and identify keys and indices(3,5) | By practicing the techniques in homework as well as in labs and the project | Results from the project, midterm and final exams |
| 3. Be able to Normalize tables up to 3NF (3,5) | By practicing the techniques in homework as well as in the project | Results from the project and midterm exam |
| 4. Be able to write SQL queries that can solve database application requests, using a commercial DBMS (3,5) | By writing many SQL queries in labs, as well as in the project | Results from the project, midterm, and final exams |
| 5. Understand the importance and details of Transactions (3,5) | By applying the knowledge in homework | Results from the final exam |
| 6. Understand the concepts and terminology for data warehousing, data mining, objects in the database, and distributed databases (3,5) | By applying the knowledge in homework | Results from the final exam |
| 7. Explain the connections between the Science of Consciousness and Database Systems (2) | By doing the appealing points with written Science of Consciousness connections | Short Essay Exam Question |