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| Learning method | the topic | Required learning outcomes | watches | week |
|  | |  | | --- | | Introductory lecture + discussion |  |  | | --- | |  | | Introduction to Databases |  | First week |
|  | |  | | --- | |  |  |  | | --- | | Project Analysis Case Study | | Database characteristics |  | The second week |
|  | |  | | --- | |  |  |  | | --- | | System Design Workshop | |  | | Main stages of database design |  | The third week |
|  | |  | | --- | | Lecture and group discussion |  |  | | --- | |  | | Create an Entity-Relationship Model (ER Model ) |  | Fourth week |
|  | |  | | --- | | RAD Applications | |  |  |  | | --- | |  | | (ER Diagram ) Symbols and Terminology |  | Fifth week |
|  | Practical beach using a miniature model | ER Diagrams , Best Practices in Designing ER Diagrams , Exercises |  | Week 6 |
|  | |  | | --- | |  |  |  | | --- | | Agile Project Status Presentation | | Relational algebra |  | The seventh week |
|  | |  | | --- | | Role -play |  |  | | --- | |  | | Files and Records |  | The eighth week |
|  | |  | | --- | | group activity | |  |  |  | | --- | |  | | Organizing records within a file |  | Week 9 |
|  | |  | | --- | | Practical lecture​ |  |  | | --- | |  | | File Headers |  | Week eleven |
|  | |  | | --- | | Group exercises |  |  | | --- | |  | | Hashing Techniques |  | The twelfth week |
|  | |  | | --- | | Actual project analysis | |  |  |  | | --- | |  | | 1. Hashing Function​ |  | thirteenth week |