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| **Week No.** | Start Date | Lab | Section | Comments |
| 1 | 7-2-2015 | No lab | No section |  |
| 2 | 14-2-2015 | No lab | No section |  |
| 3 | 21-2-2015 | **Lab 1**   * SQL Installation Steps | **Section-1**   * SQL commands * Data types and constraints * SQL DDL syntax |  |
| 4 | 28-2-2015 | **Lab-2**   * Practice on DDL | **Section-2**   * SQL DML 1 (One table only) |  |
| 5 | 7-3-2015 | **Lab-3**   * Practice on DML 1 | **Section-3**   * SQL DML 2 (Foreign key, types of join) |  |
| 6 | 14-3-2015 | **Lab-4**   * Practice on DML 2 | **Section-3**   * SQL DML 2 (Relational operators) |  |
| 7 | 21-3-2015 | Practical SQL Exam | **Section-4**   * SQL DML 3 (Aggregations and Nested Select) |  |
| 8 | 28-3-2015 |  |  | Midterm |
| 9 | 4-4-2015 | **Lab-5**   * Practice on DML 3 | * Open questions in SQL | * Announce about project task-1 in labs |
| 10 | 11-4-2015 | **Lab-8**   * Introduction to C# | Sham El Neseem Vacation |  |
| 11 | 18-4-2015 | **Lab-9**   * Accessing Data in C# | **Sections 5 and 6**   * ERD (Notations) * ERD Mapping to Relational Model | * Students deliver project task-1 in labs |
| 12 | 25-4-2015 | **Lab-6 & 7**   * Conceptual model on Power Designer * ERD mapping to relational model on Power Designer | **Sections 5 and 6**   * ERD Continued | * Students deliver project task-2 in labs (without using power designer) |
| 13 | 2-5-2015 | * Discuss project task-3 | **Section-7**   * Relational algebra ( Projection, Selection, Union, Intersection, Set difference ,Renaming ,Cartesian product, Join, Natural Join, Division, Grouping) |  |
| 14 | 9-5-2015 | * Give relational algebra quiz to students in labs | **Section-8**   * Normalization | Students deliver ERD assignment in labs (using power designer) |

Database 1

Lab Plan – Spring 2015