

Program

1. Introduction to databases (*Chapter 1 of [Connolly99]*)
2. Database Environment (*Chapter 2 of [Connolly99]*)
 - 2.1. ANSI-SPARC Architecture
 - 2.2. Database languages
 - 2.3. Data Models
 - 2.4. Database management systems
3. Relational Model (*Chapter 3 of [Connolly99]*)
 - 3.1 Relational integrity
 - 3.2. Relational Languages
 - 3.2.1 Relational Algebra
4. Entity - Relationship modeling (*Chapter 5 of [Connolly99]*)
5. Normalization (*Chapter 6 of [Connolly99]*)

6. Structure Query Language – SQL (Lab Classes) (*Chapters 13 and 14 of [Connolly99]*)

Bibliography:

[Connolly99] Connolly, Thomas, Carolyn Begg and Anne Strachan, *Database Systems, A Practical Approach to Design, Implementation and Management*, Addison-Wesley 2nd Edition, 1999.

UBI library: I-6.2-53

Assessment:

1- For each chapter studied, do the “review questions”. (2 points)

Chap 1 – 0.25 points - deliver: 30/10

Chap 2 – 0.25 points - “ 6/11

Chap 3 – 0.25 points - “ 20/11

Chap 13 – 0.25 points - “ 27/11

Chap 5 – 0.25 points - “ 4/12

Chap 14 – 0.5 points - “ 11/12

Chap 6 – 0.25 points “ 18/12

2 – Project. (8 points)

Groups with 2 students.

The project is given on 23/11 and must be delivered on 11/01/2008.

Classes of 10/12, 17/12 and 7/1 are for working in the project.

The project is presented in one class of the last two weeks.

3 – A written test on 8/01/2008, 14:00 hours, room 6/2. (10 points)

4 – A written test about the project (8 points). 22/1/2008, 14:00 hours, room 6/2.

If the student improves the classification it keeps the project classification. If the student decreases the classification, the new classification will be the project classification.