

RELATIONAL DATABASE DESIGN - CLASS RULES

Fak. Teknik Informatika ITelkom

Outline

- Descriptives
- X-REQUISITES
- RULES
- Scoring System
- Syllabus

Descriptives

- Matakuliah Perancangan Basis Data Relasional (PBDR) merupakan matakuliah dasar wajib yang mengarahkan mahasiswa untuk bisa memahami konsep perancangan basis data, bagaimana berinteraksi dengan basis data dan memanfaatkan alat bantu untuk implementasi basis data.

X-REQUISITES

- Pre-Requisites
 - MA2713 : Logika Matematika
- Post-Requisites
 - CS3334 : Sistem Basis Data
- 3 Credit (Short Semester) = 2 x 2 hours/week

Schedule

- IF-02
 - Senin 09.00 A306
 - Kamis 15.20 B206

- IF-07
 - Selasa 09.00 B204
 - Jumat 13.20 B.307

RULES

- Kehadiran Mahasiswa 75% dari kehadiran dosen
 - Absensi nitip, Nilai = E
- Tidak ada susulan untuk tugas, quiz dan presentasi
- Tidak ada penambahan nilai akhir
- Ujian susulan diatur Departemen
- Tugas sama, nilai = E
- Cellphone : Silent Mode

Scoring System

- **Final Score**
 - Task 20%
 - Quiz 10%
 - Mid Semester 30%
 - Final Test Semester 40%

Final Score	Grade
$NA \geq 80$	A
$70 \leq NA < 80$	B
$55 \leq NA < 70$	C
$40 \leq NA < 55$	D
$NA < 40$	E

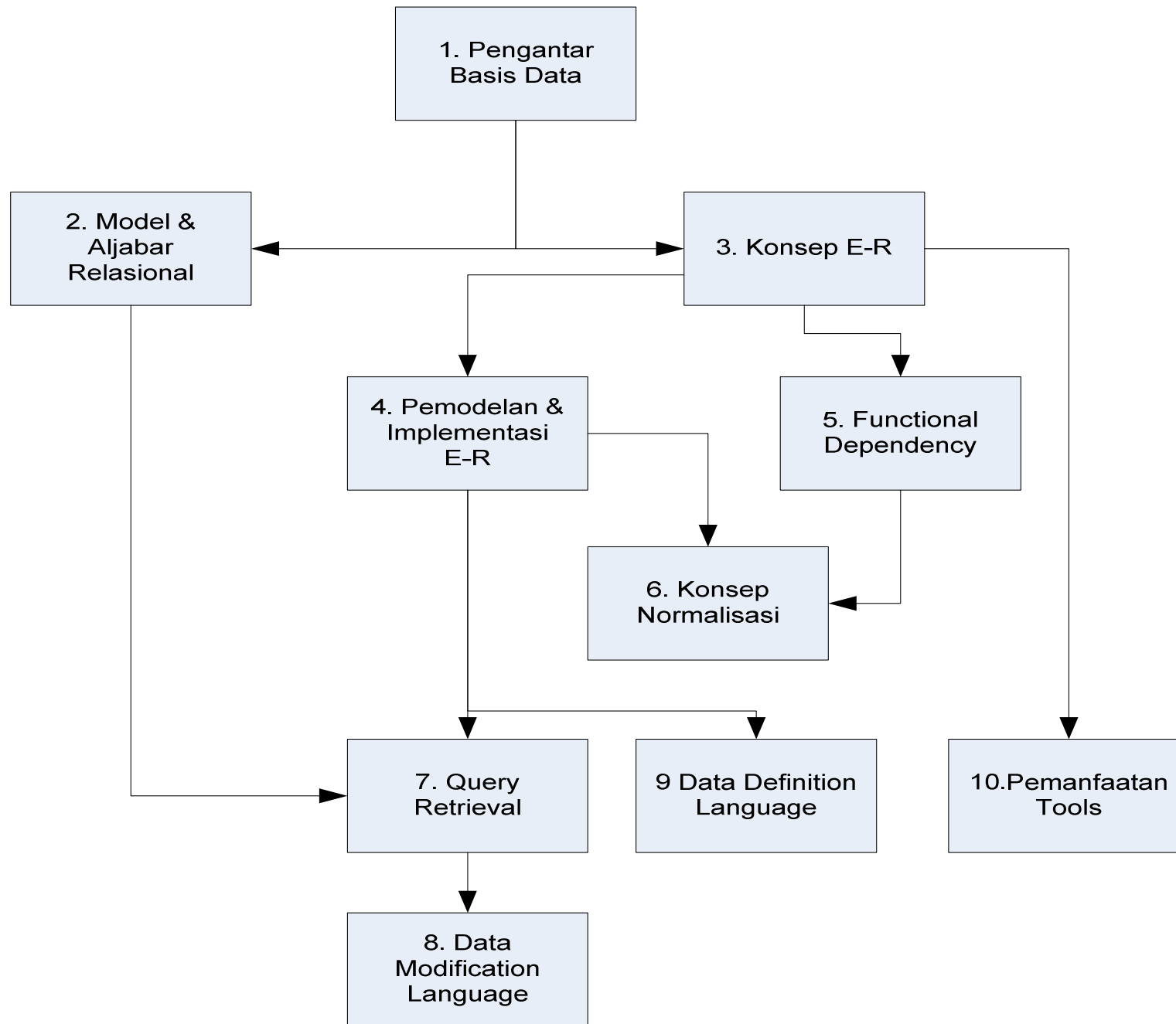
Syllabus - UTS

No	Tujuan Instruksional Khusus (TIK)	Pokok Bahasan	Sub Pokok Bahasan
1	Pengantar Basis Data	Pengantar Basis Data	<ul style="list-style-type: none"> • Regulasi Perkuliahan • Sejarah DBMS • Konsep DBMS • Abstraction Level • Database Language
2	Model & Aljabar Relasional	Model & Aljabar Relasional	<ul style="list-style-type: none"> • Struktur Basis Data Relasional • Aljabar Relasional • Relational Calculus • Additional Operations
3	Konsep E-R	Konsep E-R	<ul style="list-style-type: none"> • Komponen E-R • Relation Sets • Keys • Design Issues
4	Pemodelan & Implementasi E-R	Pemodelan & Implementasi E-R	<ul style="list-style-type: none"> • Perancangan E-R • Mapping E-R • Conceptual Data Model
5	Functional Dependency	Functional Dependency	<ul style="list-style-type: none"> • Konsep FD • Closure FD
6	Konsep Normalisasi	Konsep Normalisasi	<ul style="list-style-type: none"> • Konsep Normalisasi • 1NF • 2NF • 3NF • Boyce-Codd NF

UTS

Syllabus - UAS

7	Query Retrieval	Query Retrieval : SQL	<ul style="list-style-type: none"> • Sejarah SQL • Basic Query • Join • Agregasi • Sub Query • Null • Complex Query
8	Data Modification Language	Data Modification Language	<ul style="list-style-type: none"> • Insert • Update • Delete • DML with Query
9	Data Definition Language	Data Definition Language	<ul style="list-style-type: none"> • Table • View • DDL with Query • Other Objects
10	Pemanfaatan Tools	Pemanfaatan Tools	<ul style="list-style-type: none"> • Sybase Power Designer • Tutorial • Kasus Uji
11	Tugas Akhir PBDR	Presentasi Tugas	<ul style="list-style-type: none"> • Presentasi Tugas
UAS			



References

- **Database System Concept, Abraham Silberscahatz, Henry F.Korth – McGraw Hill**
- Database Management System, Raghu Ramakrisnan, Gherke – McGraw Hill
- Oracle9i SQL Fundamentals volume 1 & 2 - student guide, Oracle University, 2002