



Foundations of Databases A.Y. 2021-2022 Homework 2 – Conceptual and Logical Design

Master Degree in Computer Engineering Master Degree in Cybersecurity Master Degree in ICT for Internet and Multimedia

Deadline: November 26, 2021

Group	Project			
Group name	Inventory Management System			
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Conceptual Design

Variations to the Requirement Analysis

Entity-Relationship Schema

Data Dictionary

Entities Table

Entity	Description	Attributes	Identifier
Entity_name		attribute 1attribute 2	identifying attribute(s)
Entity_name		attribute 1attribute 2attribute 3	identifying attribute(s)

Relationships Table

Relationship	Description	Component Entities	Attributes
Relationship_name		• E1 (min, MAX) • E2 (min, MAX)	
Relationship_name		E1 (min, MAX)E2 (min, MAX)E3 (min, MAX)	Relation Attributes

External Constraints

Functional Requirements Satisfaction Check

Logical Design

Transformation of the Entity-Relationship Schema

Redundancy Analysis

Choice of Principal Identifiers

Analysis of Database Load

Relational Schema

Data Dictionary

Relation	Attribute	Description	Domain	Constraints
Relation 1				
Relation 1				

External Constraints