



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



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

Team acronym	Insert team acronym here	
Last Name	First Name	Student Number
Insert last name here	Insert first name here	Insert student number here
Insert last name here	Insert first name here	Insert student number here
Insert last name here	Insert first name here	Insert student number here

Conceptual Design

Variations to the Requirement Analysis

Entity-Relationship Schema

Data Dictionary

Entities Table

Entity	Description	Attributes	Identifier
Entity_name		<ul style="list-style-type: none">• attribute 1• attribute 2	identifying attribute(s)
Entity_name		<ul style="list-style-type: none">• attribute 1• attribute 2• attribute 3	identifying attribute(s)

Relationships Table

Relationship	Description	Component Entities	Attributes
Relationship_name		<ul style="list-style-type: none">• E1 (min, MAX)• E2 (min, MAX)	—
Relationship_name		<ul style="list-style-type: none">• 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

External Constraints

Group Members Contribution