

Laboratory work 4

1. a)

What are the main phases in the database design? What is done on each development phase?

- Initial phase --characterize fully the data needs of the prospective database users.
- Second phase --choosing a data model•Applying the concepts of the chosen data model•Translating these requirements into a conceptual schema of the database.
- Final Phase --Moving from an abstract data model to the implementation of the database•Logical Design --Deciding on the database schema.

b) What is the entity-relationship (ER) data model?

Entity Relationship Model (ER Modeling) is a **graphical approach to database design**. It is a high-level data model that defines data elements and their relationship for a specified software system.

a) Task – 2

Student
ID
Full_name
First_name
Last_name
{Phone_number}
Students_age
Address_field

b)

Course
Course_id
Ects
Name

University
Name
Rating
Address

Dormitory
Building
Location
Price

Teacher
ID
Full_name
Email_add

Office_of_the_Registrar
Student_id
Student_full_name
Ects_fyear
Student_gpa