

Lab # 07: DBMS LAB Project – Complete Conceptual Schema

OBJECTIVES OF THE LAB

This lab focuses on the Database Design consisting of the Conceptual Schema.

- *Complete Conceptual Schema*
 - *Entity Description,*
 - *Business Rules,*
 - *Entity Relation Diagram, and*
 - *Enhance Entity Relation Diagram (If Required)*
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COMPLETE CONCEPTUAL SCHEMA

A conceptual schema is a high-level description of a business's informational needs. It typically includes only the main concepts and the main relationships among them. Typically this is a first-cut model; with insufficient detail to build an actual database. This level describes the structure of the whole database for a group of users. The conceptual model is also known as the data model as data model can be used to describe the conceptual schema when a database system is implemented. It hides the internal details of physical storage and targets on describing entities, data types, relationships and constraints.

To create the Entity-Relationship Diagram (ERD) and Enhanced Entity-Relationship Diagram (EERD), please use one of the following CASE Tools:

1. [www.draw.io](https://app.diagrams.net/) (<https://app.diagrams.net/>)
2. Microsoft Visio Software

To create ERD & EERD in draw.io, please use the following YouTube video as a reference:

- 1) **Creating Entity Relationship Diagrams using Draw.io**
<https://www.youtube.com/watch?v=IAAtCySGDD48>

To create ERD & EERD in Microsoft Visio, please use the following YouTube videos as a reference:

- 2) **Entity-Relationship Diagram Model with Visio**
<https://www.youtube.com/watch?v=597BVMtMZ1w>

3) Visio 2013 - Database Diagram (Crows Foot Notation)

<https://www.youtube.com/watch?v=xzQQW0NiAMM>

-----**Task 7.1**-----

Submit the Complete Conceptual Schema of your DBMS Project including:

1. Entity Description (ED)
2. Business Rules (BR)
3. Entity-Relationship Diagram (ERD)
4. Enhanced Entity-Relationship Diagram (EERD)

Note:

1. For writing better business rules and entity description, consider Lecture 2a and Lecture 2b.
2. For making better ERD, consider Lecture 2a and 2b.
3. For making better EERD, consider Lecture 3.