SWE 207 Database Management Systems

~ Structured Query Languages~

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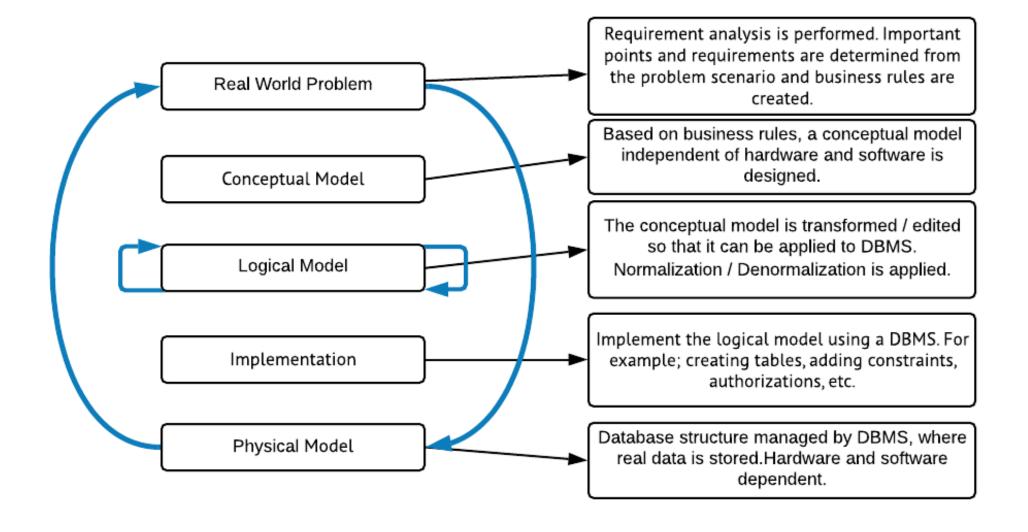


Content

- Preparation of the Working Environment
- Structured Query Language (SQL)
- Basic SQL Commands (SQL DML Commands; SELECT, JOIN, INSERT, UPDATE, DELETE)
- DBMS Operations with Application Programs



Database development lifecycle



Working Environment

- PostgreSQL installation
 - o PostgreSQL
 - o https://www.postgresql.org/download
- pgAdmin installation
 - o pgAdmin
 - o It is deployed with PostgreSQL.
- Valentina Studio
 - o https://www.valentina-db.com/en/valentina-studio-overview
- Import, export of NorthWind database (Shared in Sabis)
- Import, export of Pagila database
 - o http://www.postgresqltutorial.com/postgresql-sample-database

Why Valentina Stduio?

Free for academic usage and students

Some other DBMS (MySQL, MariaDB, MS SQL Server, SQLite & Valentina DB.) can be used.

Support Crow's Food Notation

Structured Query Language (SQL)

SQL Functions can be divided into 2 parts:

1) Data Definition Language (DDL)

Structured Commands

Database, table, relation etc. etc.

2) Data Manipulation Language (DML)

Adding, deleting, updating, querying etc. data.

