SWE 207 Database Management Systems

~ Introduction~

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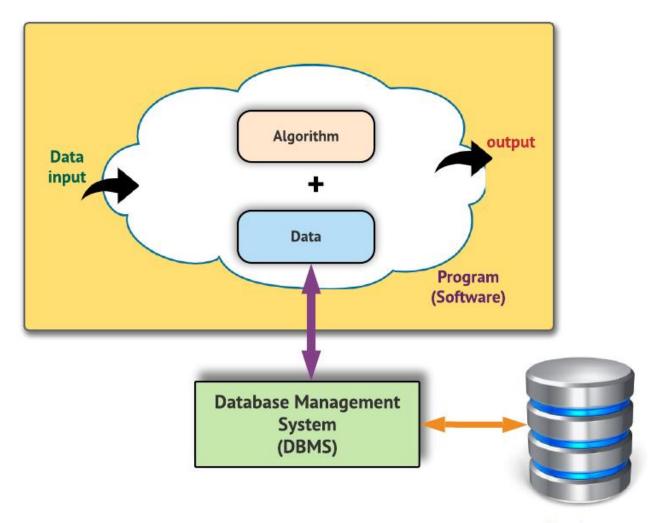
The objectives of the DBMS

- The information era
 - Data management is one of the most fundamental activities of organizations.
 - Accurate, relevant and obtained in time information is important.
 - It is very effective in decision making processes.
 - It is extremely important for the survival of organizations.
- Solution: Database Management System
- Database Management System
 - Storing, accessing, organizing the data.
- Objectives
 - To gain skills about Database Management Systems.

The objectives of the DBMS

data in the ram but we can not story every data on the ram

Real world problem



Database

Evaluation

- Quiz 5%
- Quiz 5%
- Project 20%
- Midterm exam 20%
- Final 50%

Resources

- Database Systems: Design, Implementation, and Management; Carlos Coronel, Steven Morris, Peter Rob; Cengage Learning
- https://www.postgresql.org/docs/manuals/

Working environment

- PostgreSQL
 - No license fee required
 - Open source
 - It is an advanced relational database management system
 - It runs on many operating systems
 - https://www.postgresql.org

Working environment

- pgAdmin
 - Client Software
 - It is deployed with PostgreSQL.
- Valentina Studio
 - Client Software
 - https://www.valentina-db.com/en/valentina-studio-overview

Working environment

- NorthWind
 - https://code.google.com/archive/p/northwindextended/downloads

- Pagila
 - http://www.postgresqltutorial.com/postgresql-sample-database

Class attendance and communication

- Attending the class personally is important for learning.
- Check SABİS and your student e-mail addresses regularly.
- Assignment announcements and notifications are also made through the SABIS system.
- Sometimes the SABIS system can be used for other announcements.

Instructor

- Gözde YOLCU ÖZTEL
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Course Flow

- Database Systems
- Data Models, Entity Relationship Model
- Entity Relationship Model Examples
- Relational Database Model
- Extended Entity Relationship Model, Relational Algebra
- Structured Query Language, Data Manupilation Language
- Data Definition Language
- Advanced SQL
- SQL Programming
- Normalization and Performance Tuning
- Database Security, Other Database Models

Frequently Asked Questions

- I'm late for the class. May I come in?
 - Yes, without disturbing the order of the class.
- I had an immediate concern during class. Can I go?
 - Yes, without disturbing the order of the class.
- Can I use my mobile phone during the class?
 - No. If necessary, you can leave the class.
- Should I come to class with my computer?
 - You will be notified in advance for weeks when a computer is required.
- Can I turn in my homework late?
 - No. Assignments must be submitted before the deadline. No excuses are accepted for late delivery.

Frequently Asked Questions

- I could not attend the quizes. What should I do?
 - There are no excuses for work during the term(homeworkquizes, etc.).
- I could not attend the midterm/ final exam. What should I do?
 - See the regulations.
- I think my exam was misevaluated. What can I do?
 - You can contact via e-mail.
- How can I communicate over the Internet?
 - You can contact via e-mail.

Frequently Asked Questions

- I gave all or part of a study I found on the Internet as an assignment. I didn't get points. Why?
 - Your homework should be your own original work written in your own sentences and codes.
 - You should indicate the sources you have benefited from in the bibliography section and write in your own words by referring to the information you have obtained from those sources.
- I gave my friend's work as an assignment. I didn't get points. Why?
 - See the item above.
- Also;
 - You must sign the roll call (it is not important for your class mark).

Software engineering ethics

- The products you develop should not harm the environment, nature and people.
- The primary objective of your project should be the benefit of the community.
- Get and protect the copyrights of your own products.
- Do not violate the copyrights of other people's products.
- Don't use pirated software, books, etc and; raise the awareness of the users of them.
- Write your own documentation.

Software engineering ethics

- Write your own code.
 - Review the license before using code that isn't yours.
 - If the license allows, use it as and as it allows. Don't use it if the license doesn't allow it.
- In any case, give a reference to the owner of the work you used.
- What does license mean?
 - A text that sets out the rules for the use, editing, and distribution of a work.
 - work: Software, Source Code, Photo, Picture, Book, etc.