Dentistry			
Bachelor	TR-NQF-HE: Level 6	QF-EHEA: First Cycle	EQF-LLL: Level 6

Course Introduction and Application Information

Course Code:	UNI338
Course Name:	Database Management Systems
Semester:	Fall Spring
Course Credits:	ECTS 5
Language of instruction:	Turkish
Course Condition:	
Does the Course Require Work Experience?:	No
Type of course:	University Elective
Course Level:	Bachelor	TR-NQF-HE:6. Master`s Degree	QF-EHEA:First Cycle	EQF-LLL:6. Master`s Degree
Mode of Delivery:	Face to face
Course Coordinator:	Öğr. Gör. AHMET SELİM ÖVER
Course Lecturer(s):	Öğr. Gör. Ahmet Selim Över
Course Assistants:	

Course Objective and Content

Course Objectives:	In this course, it is aimed to understand basic concepts of database management systems, writing complex and nested SQL commands, develop ability to manage and design relational database systems
Course	Database Management Systems, Relational Database Management Systems, Normalization

Content:	Rules, SQL commands, Entity-Relation(ER) Modelsi Database Design Theory, Applications of Database Management Systems

Learning Outcomes

The students who have succeeded in this course;

1) To comprehend the basic of database management systems, creating table, understanding data types and scopes, creating index, understanding properties of primary key and foreign key in tables

2) To design relational database that any software will use at the background.

3) To be able to write basic queries with SQL commands.

4) To be able to write advanced queries with nested SQL commands

5) To be able to extract the ER(Entity-Relation) model of a database

Course Flow Plan

Week	Subject	Related Preparation
1)	Introduction to Database Management Systems	No prior preparation is required.
2)	Introduction to Relational Database Management Systems	No prior preparation is required.
3)	Creating SQL Table, Introduction to Declare structure.	No prior preparation is required.
4)	SQL(Structured Query Language), SELECT commands and usage ORDER BY, BETWEEN, WHERE with SELECT.	No prior preparation is required.
5)	SQL(Structured Query Language), INSERT, UPDATE, DELETE commands	No prior preparation is required.
6)	SQL date and time functions	No prior preparation is required.
7)	SQL aggregate functions(COUNT, AVG, SUM, MIN, MAX etc.)	No prior preparation is required.
8)	Midterm	1-7. Week Repeat
9)	SQL aggregate functions	No prior preparation is required.
10)	Nested SQL commands, combine rows from two or more tables, based on relational field between them	No prior preparation is required.
11)	UNION command and JOIN commands, usage of HAVING and EXISTS	No prior preparation is required.

12)	Creating Views and Procedures	No prior preparation is required.
13)	View and Procedure creation continued	12. Week Repeat
14)	General topic repetition and question solutions	1-14
15)	Final	1-14. Week Repeat

Sources

Course Notes / Textbooks:	Veritabanı Yönetim Sistemleri - Turgut Özseven / EKİN KİTABEVİ YAYINLARI
References:	Ömer Faruk Çolakoğlu – SQL Öğreniyorum Link:https://www.btkakademi.gov.tr/portal/course/uygulamalarla-sql-oegreniyorum-8249 Engin Demiroğ – SQL Kursu Link: https://www.udemy.com/course/sql-kursu

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5
Program Outcomes					
1) Has basic and up-to-date knowledge in the field of dentistry, follows scientific publications, and applies evidence-based data to his/her professional practice.					
2) Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.					
3) Evaluates the knowledge in the field of dentistry critically, integrates it with the knowledge of disciplines in the field of health, uses it by analyzing and synthesizing it.					
4) Produces projects related to the field of dentistry, can work with other health disciplines, takes part as a member of the research team and evaluates and reports the results obtained at a scientific level.					
5) Uses information that will contribute to the dentistry profession during practice, takes responsibility, and produces solutions in unforeseen situations.					
6) Shares, compares, and exchanges dental knowledge with professional colleagues in social and scientific environments in written, verbal, and visual forms.					

Course Learning Outcomes	1	2	3	4	5
7) Within the framework of social, scientific, and ethical values including patient privacy, communicates with patients and their relatives, knows all the characteristics of the patient, and recommends the most appropriate treatment with a patient-centered approach.					
8) Follows technological developments, participates in national and international studies, and shares and presents own observations, experiences, and research to further advance dental practices.					
9) By adopting the principle of lifelong learning throughout the dentistry profession, follows current evidence-based dental knowledge and uses it during his professional practice.					
10) During dental practice, in cases such as abuse and addiction, performs the treatment by exhibiting the behaviors required by social ethics and legal rules, and collects and records the relevant data.					
11) Uses basic and current knowledge in the field of dentistry during professional practice for the benefit of society within the framework of national values and country realities.					
12) In natural disasters and emergency cases, takes the protective measures required by the dentistry profession; performs professional practices that benefit patients and society					
13) Generates ideas regarding health policy in dentistry, prioritizes individual and public health, and carries out preventive and therapeutic medical practices within the framework of scientific, ethical, and quality processes.					
14) Differentiates the signs and symptoms commonly encountered in the dentistry profession, makes a treatment plan and refers when necessary, and manages diseases and clinical situations regarding their urgency and patient priority.					
15) Can assume the leadership responsibility of the team he/she works for, manage it following scientific criteria, and support the professional development of the team.					

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	Has basic and up-to-date knowledge in the field of dentistry, follows scientific publications, and applies evidence-based data to his/her professional practice.	

2)	Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.	
3)	Evaluates the knowledge in the field of dentistry critically, integrates it with the knowledge of disciplines in the field of health, uses it by analyzing and synthesizing it.	
4)	Produces projects related to the field of dentistry, can work with other health disciplines, takes part as a member of the research team and evaluates and reports the results obtained at a scientific level.	
5)	Uses information that will contribute to the dentistry profession during practice, takes responsibility, and produces solutions in unforeseen situations.	
6)	Shares, compares, and exchanges dental knowledge with professional colleagues in social and scientific environments in written, verbal, and visual forms.	
7)	Within the framework of social, scientific, and ethical values including patient privacy, communicates with patients and their relatives, knows all the characteristics of the patient, and recommends the most appropriate treatment with a patient-centered approach.	
8)	Follows technological developments, participates in national and international studies, and shares and presents own observations, experiences, and research to further advance dental practices.	
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11)	Uses basic and current knowledge in the field of dentistry during professional practice for the benefit of society within the framework of national values and country realities.	
12)	In natural disasters and emergency cases, takes the protective measures required by the dentistry profession; performs professional practices that benefit patients and society	
13)	Generates ideas regarding health policy in dentistry, prioritizes individual and public health, and carries out preventive and therapeutic medical practices within the framework of scientific, ethical, and quality processes.	
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15)	Can assume the leadership responsibility of the team he/she works for, manage it following scientific criteria, and support the professional development of the team.	

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Homework Assignments	1	% 15
Midterms	1	% 35
Final	1	% 50
total		**% 100**
PERCENTAGE OF SEMESTER WORK		% 50
PERCENTAGE OF FINAL WORK		% 50
total		**% 100**

Workload and ECTS Credit Calculation

Activities	Number of Activities	Preparation for the Activity	Spent for the Activity Itself	Completing the Activity Requirements	Workload
Course Hours	3	15	2		51
Homework Assignments	1	15	1		16
Midterms	1	25	2		27
Final	1	30	2		32
Total Workload					**126**