Óbuda University			Institute of Software Engineering	
John von Neumann Faculty of Informatics			institute of software Engineering	
Name and code: Databases (NIXAB0EBNE)			Credits: 4	
Computer Science BSc		Da	ytime 2020/21 year I. semester	
Subject lecturers: Zsolt Szabó-Resch, Ármin Romhányi				
Prerequisites:				
(with code)				
Weekly hours:	Lecture: 2 Seminar: 0	Lab. hours: 2	Consultation: 0	
Way of assessment:	Midyear grade			
Course description				
Goal: The students will obtain competency in the basics of the SQL language, and they will obtain practice in creating				
queries.				
Course description: Introduction to the relational principle, SQL SELECT: Suffixes FROM, WHERE, GROUP BY, HAV-				
ING, ORDER BY. DDL/DML. OOP Approaches and basics of NoSQL. Introduction to serverside programming				

Lecture schedule				
Education	ducation			
week	торіс			
1	Lecture: Introduction to relational databases Practices: Project topic and creation of diagrams Project: Proje			
	topic (ER $+$ Table structure diagram)			
2	Lecture: SQL Select, From, Where, Order By Practices: SQL Practice (A1, Select basics) Project: —			
3	Lecture: SQL Group By Practices: SQL Practice (A2, Group by) Project: —			
4	Lecture: SQL Join Practices: SQL Practice (A3, Join) Project: —			
5	Lecture: DDL, DML (A4) Practices: SQL Complex Practice (A5, Cars) Project: —			
6	Lecture: — Practices: SQL Complex Practice (A5, Cars) Project: Create Table + Insert Into			
7	Lecture: Rank and analytics Practices: Project checkup: ER+Table Structure+CREATE TA-			
	BLE+Insert+Verification Project: —			
8	Lecture: Usage of OOP with relational tables Practices: Project checkup: ER+Table Structure+CREATE			
-	TABLE+Insert+Verification Project:			
9	Lecture: Basics of NoSQL Practices: SQL Complex Practice (A6, Handball1) Project: Should have 1/3 of the			
10	queries			
10	Lecture: Basics of procedures/functions/triggers Practices: SQL Complex Practice (A7, Handball2) Project:			
11				
	<i>Lecture</i> : Data Access, indices, Relational algebra/calculus, DCL <i>Practices</i> : Practice consultation for ZH			
10	<i>Lastanea</i> Theory congulation for 7H <i>Drastices</i> Decise congulation for deadline <i>Draiset</i> . 7H. Drastice 7H			
12	Lecture: Practices: Project defense Project: 7H: Theory 7H			
14	Lecture: — Practices: Project defense Project: — ZH: Betake ZH			
Midtonm possiiromonta				
Signature: The completion of both tests and the project work is required for the grade				
M. L. The completion of both tests and the project work is required for the grade.				
Midterm Test Scheduling				
week	Topic			
12	Practice ZH			
13	Theory ZH			
14	Retake ZH			
Midterm grade calculation methods				
Grade: The	<i>Grade</i> : The grade is calculated by the average of the two tests, with the project work being able to affect the final grade by			
one rank.				
Method of replacement				
If the tests are not completed successfully, they can be re-tried on the last week.				
If the test on the project work is not completed successfully by the and of the regular connector, then they have to be every lated				
by the signature retake deadline				
	Type of even			
	Type of exam			

## Exam grade calculation methods

References

Powerpoint presentations that can be downloaded from the webpage or from the Moodle system http://w3schools.com/SQL/default.asp

## Recommended:

Elmasri, Navathe: Fundamentals of Database Systems Ullman, Widom: First course in database systems

Others: