



Faculty of Engineering
Department of Computer Engineering

COME206 Database Management System

MIDTERM EXAM

Assistant Prof. Bülent HAZNEDAR
2020-2021 Spring Semester
05.04.2021 - 09:00

Student's Information

Name and Surname:			
Student ID:		Signature:	

Instructions:

- Read the questions carefully and repeatedly. Writing with clarity will make it possible to assess your answers correctly.
- Any form of cheating, intention of cheating, or disruption of the exam will subject you to a disciplinary action as specified by the university's regulations.
- Carrying or using the mobile phone during the exam is not allowed. Using the phone during the exam will carry a disciplinary action.
- No food or drink to be brought into examination room.
- No student can leave the exam room during the first half hour of the exam. Any student coming after the first half hour of the exam will not be permitted to enter the exam.
- A student leaving the exam, even for legitimate reasons, may not be given a makeup exam.

Exam Room:	Online
Duration:	75 minutes
Total pages (inc. cover page):	3
Total points:	100

#of Q.	PO	Max Marks	Score
1	PO1, PO2	40	
2	PO3, PO4	60	
Total			

Question 1:

Given the **Employee**, **Class**, and **Training** tables.

Employee

Emp_id (PK)	Name	Address	Phone	Email
EM8765	Ali	USA	98733211	ali@yahoo.com
EM3456	Nazire	Dubai	98764533	nazire@gmail.com
EM7658	Katrina	USA	90857464	katrina@gmail.com
EM1987	Lemi	USA	99663425	lemi@hotmail.com
EM8009	Alican	UK	95583372	alican@yahoo.com
EM7698	Mustafa	Dubai	92234452	mustafa@hotmail.com
EM6666	Hasan	Jordan	92123366	hasan@gmail.com

Class

Class_id (PK)	Class_name	Credit
COM106	Multimedia	3
COM206	Database	2
COM306	Public Speaking	9

Training Table

Emp_id (FK)	Date	Class_id (FK)	Result
EM8765	05-May-2010	COM106	Pass
EM3456	08-May-2011	COM206	Pass
EM7658	08-Feb-2010	COM306	Fail
EM1987	08-Feb-2010	COM306	Fail
EM8009	28-Jan-2011	COM306	Pass
EM7698	10-March-2012	COM106	Fail
EM8765	08-May-2011	COM206	Pass

Write the appropriate SQL queries (Each one is 5 Mark);

- Get the address of employee whose name is Alican
- Get the name and email of employees located in **Dubai**. Sort the results in alphabetical order of name.
- Show the count of employees that stored in Employee Table.
- What is the **minimum, maximum, average and total values** of credit in Class Table
- Show the Emp_id and Result column of Training table which class_id is 'COM106' and 'COM206' by using IN function.
- Show the employee(s) whose email account is gmail.
- (10 Mark) List Name, Email, Class Name and Result of employees.

Question 2:

Given the **Sailor**, **Boat**, and **Reservation** tables.

Sailor Table			
ID (PK)	NAME	RATING	AGE
22	Dustin	7	45
31	Lubber	8	65,5
58	Rusty	10	35
59	Smith	9	41

Boat Table		
ID (PK)	NAME	COLOUR
101	Interlake	blue
102	Interlake	red
103	Clipper	green
104	Marine	red

Reservation Table		
SID (FK)	BID (FK)	DAY
22	101	10.10.2006
58	103	11.12.2011
31	104	4.02.2007
31	103	5.02.2007
58	103	6.02.2007
31	102	15.02.2007
59	102	5.01.2008
31	101	5.01.2008

Write the appropriate SQL queries (Each one is 10 Mark);

- List the sailor who made the highest number of reservations for each boat.
- List, for every boat, the number of times it has been reserved, including those boats that have never been reserved (list the id and the name).
- List those sailors who have reserved only red boats.
- For which boat are there the most reservations?
- Select all sailors who have never reserved a red boat.
- Find the sailors who have made, for each boat colour, at least one reservation for a boat with that colour.