



Israa University

IT Department

Data Base:

Homework 2

By

Student Name:
Mohamoud Fadel Attallah

Student Num:
20220510

Submitted To:

Eng. Amjad Al-Salout

Gaza, Palestine

2-DEC-2024

Insert data into the tables .1 --

**INSERT INTO Department (DepartmentID, DepartmentName,
HeadOfDepartment)**

VALUES

,('Engineering', 'Dr. Ahmad Saeed' ,1)

,('Medicine', 'Dr. Mohammad Youssef' ,2)

,('Science', 'Dr. Suad Khaled' ,3)

,('Computer Science', 'Dr. Ibrahim Hassan' ,4)

;'Business Administration', 'Dr. Salma Ali' ,5)

**INSERT INTO Student (StudentID, FirstName, LastName, DateOfBirth,
Gender, Address, Major, Year, DepartmentID)**

VALUES

**Khaled', 'Hussein', '2000-05-15', 'Male', 'Gaza, Al-Wahda Street', ' ,1)
,('Civil Engineering', 3, 1**

**Layla', 'Abu Omar', '1998-09-25', 'Female', 'Gaza, Al-Nasr Street', ' ,2)
,('Medicine', 5, 2**

**Ahmad', 'Ismail', '2001-02-12', 'Male', 'Gaza, Tal Al-Hawa', ' ,3)
,('Robotics', 2, 4**

**Hassan', 'Omar', '2000-07-22', 'Male', 'Gaza, Al-Shati Camp', ' ,4)
,('Physics', 3, 3**

**Fatima', 'Mahmoud', '1999-11-30', 'Female', 'Gaza, Al-Montar Hill', ' ,5)
,('Accounting', 4, 5**

**Omar', 'Salim', '2001-03-19', 'Male', 'Gaza, Al-Sabra', 'Software ' ,6)
,(Engineering', 2, 4**

**Hiba', 'Saleh', '2002-08-14', 'Female', 'Gaza, Al-Shujaiya', ' ,7)
,('Marketing', 1, 5**

Zaid', 'Ali', '1999-06-22', 'Male', 'Gaza, Sheikh Ijleen', 'Finance', 4, ' ',8)
,5

Mona', 'Hassan', '2000-10-10', 'Female', 'Gaza, Al-Shujaiya', ' ',9)
,('Medicine', 3, 2

Youssef', 'Salman', '2002-04-22', 'Male', 'Gaza, Sheikh Radwan', ' ',10)
,('Biology', 1, 3

Sara', 'Hamad', '2000-12-18', 'Female', 'Gaza, Al-Shati Camp', ' ',11)
,('Electrical Engineering', 3, 1

Mohammad', 'Qassem', '2001-07-10', 'Male', 'Gaza, Al-Shujaiya', ' ',12)
;('Chemistry', 2, 3

Add new column (Age) to the Student table and calculate the age .2 --

;ALTER TABLE Student ADD Age INT

UPDATE Student

;SET Age = YEAR(CURDATE()) - YEAR(DateOfBirth)

Retrieve the names of all students enrolled in the 'Engineering' .3 --
department

SELECT FirstName, LastName

FROM Student

**WHERE DepartmentID = (SELECT DepartmentID FROM Department
;WHERE DepartmentName = 'Engineering')**

Retrieve names and birthdates of all female students living in 'Al- .4 --
'Shujaiya

SELECT FirstName, LastName, DateOfBirth

FROM Student

;'WHERE Address LIKE '%Al-Shujaiya%' AND Gender = 'Female

Count the total number of male and female students .5 --

SELECT Gender, COUNT(*) AS Total

FROM Student

;GROUP BY Gender

**Retrieve professors' names along with the courses they teach and .6 --
their departments**

**SELECT Professor.FirstName, Professor.LastName, Course.CourseName,
Department.DepartmentName**

FROM Professor

JOIN Course ON Professor.DepartmentID = Course.DepartmentID

**JOIN Department ON Professor.DepartmentID =
;Department.DepartmentID**

**Update the rank of 'Mona Abdullah' from 'Assistant Professor' to .7 --
"Professor**

UPDATE Professor

'SET Rank = 'Professor

;'WHERE FirstName = 'Mona' AND LastName = 'Abdullah

Find names of students not enrolled in any courses .8 --

SELECT FirstName, LastName

FROM Student

;WHERE StudentID NOT IN (SELECT StudentID FROM Enrollment)