

Purpose of the PW

The objective of this practical work is first to create a Database in Access while defining the relationships that exist between the different tables. Then, to perform queries on this database.

Exercise

1. Create a new database named **Grade_Management** in the path: "C:\2Commerce\Gr?\Grade_Management.accdb"
2. Create the following 3 tables according to the database schema presented below:
 - **Student** (ID_STUDENT, Last_Name, First_Name, Date_of_Birth, Class)
 - **Module** (ID_MODULE, Module_Title, Coefficient)
 - **Grade** (ID_STUDENT, ID_MODULE, Grade)

Field	Data Type	Properties
ID_STUDENT	Text	Size = 6
Name	Text	Size = 20
ForeName	Text	Size = 20
Date_of_Birth	Date/Time	Short Form
Class	Text	Size = 8

Field	Data Type	Properties
Id_Module	Text	Size = 3
Module_Title	Text	Size = 20
Coefficient	Digital	Size = Simple real

Field	Data Type	Properties
Id_Etudiant	Text	Size = 4
Id_Module	Text	Size = 3
Grade	Digital	Size = Simple real

3. Create possible relationships between tables in the **Grade_Management** database.
4. Fill each of the tables in the database with the corresponding data:

Student	ID_STUDENT	Name	Forename	Date of birth	Class
	E001	Abdellah	Zaid	18/09/2002	2 COM01
	E002	Said	Ali	23/10/2001	2 COM02
	E003	Djidjli	Nour	15/07/2001	2 Com03
	E004	Sayoud	Sara	22/08/2002	2 COM01
	E005	Sanouci	Abir	13/01/2000	2 COM01
	E006	Zaidi	Faissal	03/07/2002	2 COM02

MODULE	ID_Module	Module_Title	Coefficient
	M01	Economy	5
	M02	Management	4
	M03	Computer science	2

GRADE					
ID_Etudiant	ID_Module	Grade	ID_Etudiant	ID_Module	Grade
E001	M01	14	E004	M01	11
E001	M02	17	E004	M02	12
E001	M03	13	E004	M03	10
E002	M01	10	E005	M01	9
E002	M02	11	E005	M02	15
E002	M03	17	E005	M03	10
E003	M01	14,5	E006	M01	14,5
E003	M02	17	E006	M02	11
E003	M03	14,5	E006	M03	18,5

5. Execute the following queries:

1. Q1: View a list of all students
2. Q2: Display the list of students in the class "2 Com01"
3. Q3: Display the list of Modules with a coefficient greater than 2
4. Q4: View the list of students whose names begin with the letter "S"
5. Q5: Display the first and last names of students with a grade greater than 13
6. Q6: Display the first and last names of students with a grade greater than 10 in computer science