مشروع ۱ - دورة SQL 1

اسم المتدرب: مريم الردادي

اسم المشرف: غادة المطيري

وصف المشروع: قاعدة بيانات لمدرسة ثانوية تحتوي على معلومات الطلاب والمعلمين والمواد.

متطلبات المشروع:

• انشاء قاعدة البيانات

انشاء الجداولانشاء جدول الطالب

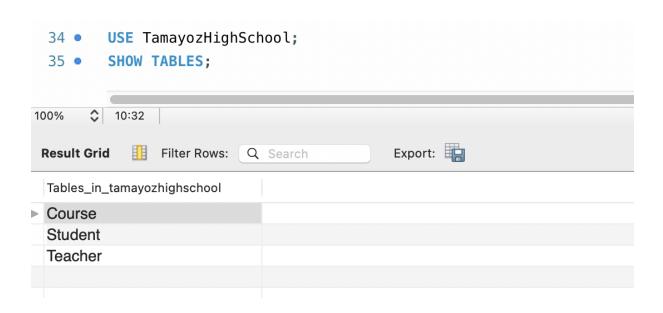
```
5 •
      USE TamayozHighSchool;
 6
 7 • ○ CREATE TABLE Student (
                                                       PRIMARY KEY AUTO_INCREMENT,
8
          student_id
                                       INT
                                               NOT NULL,
9
          student_name
                               VARCHAR(255)
10
          birth_date
                               DATETIME
                                               NOT NULL,
           gender
                               ENUM ('M', 'F') NOT NULL, -- Enumeration of either 'M' or 'F'
11
12
          enrollment_date
                               DATETIME
                                               NOT NULL,
          student_email
13
                               VARCHAR(255),
14
          student_level
                                               NOT NULL,
15
           track
                               VARCHAR(255)
                                               NOT NULL,
          GPA
                               DOUBLE
16
17
           );
18
```

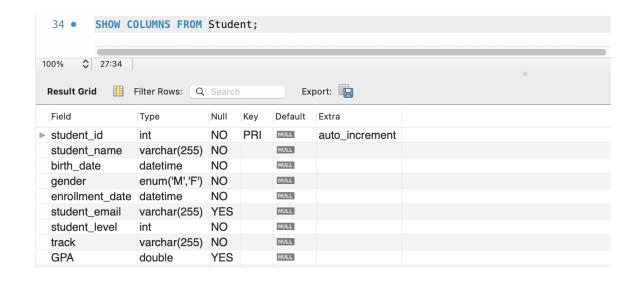
انشاء جدول المعلم

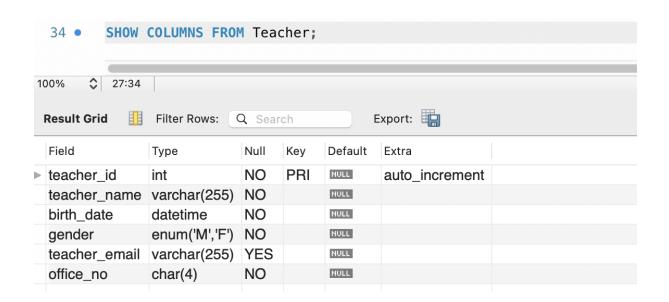
```
19 • ○ CREATE TABLE Teacher (
                                               PRIMARY KEY AUTO_INCREMENT,
20
          teacher_id
                              INT
21
          teacher_name
                              VARCHAR(255)
                                               NOT NULL,
          birth_date
22
                                               NOT NULL,
                              DATETIME
23
          gender
                              ENUM ('M', 'F') NOT NULL, -- Enumeration of either 'M' or 'F'
24
          teacher_email
                              VARCHAR(255),
25
          office_no
                               CHAR(4)
                                               NOT NULL
26
27
```

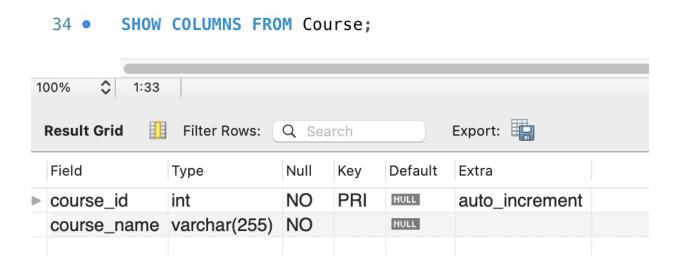
انشاء جدول المواد

```
29 • CREATE TABLE Course (
30 course_id INT PRIMARY KEY AUTO_INCREMENT,
31 course_name VARCHAR(255)
32 );
33
```









• إدخال معلومات ٣٠ طالب كحد أدنى

```
34 •
      USE TamayozHighSchool;
35
36 •
      INSERT INTO Student (student_name, birth_date, gender , enrollment_date, student_email, student_level, track, GPA)
37
       VALUES ("Nora", "1998-12-31", 'F', "2014-09-11", "nora@gmail.com", 1, "science", 4.13),
       ("Maryam", "1998-12-31", 'F', "2009-09-11", "maryam@gmail.com", 3, "science", 2.93),
38
39
       ("Shahad", "1998-12-31", 'F', "2011-09-11", "shahad@gmail.com", 2, "science", 4.25),
40
       ("Mohammed", "1998-12-31", 'M', "2009-09-11", "mohammed@gmail.com", 4, "humanities", 4.66),
41
       ("Abdulaziz", "1998-12-31", 'M', "2006-09-11", "abdulaziz@gmail.com", 5, "science", 3.93),
42
       ("Rashed", "1998-12-31", 'M', "2006-09-11", "rashed@gmail.com", 5, "science", 2.80),
       ("Saud", "1998-12-31", 'M', "2011-09-11", "nora@gmail.com", 3, "humanities", 4.83),
43
       ("Nora", "1998-12-31", 'F', "2009-09-11", "nora@gmail.com", 4, "science", 4.13),
44
45
       ("Sama", "1998-12-31", 'F', "2014-09-11", "sama@gmail.com", 1, "humanities", 4.18),
46
       ("Afnan", "1998-12-31", 'F', "2014-09-11", "afnan@gmail.com", 1, "science", 4.13),
47
       ("Fatimah", "1998-12-31", 'F', "2014-09-11", "fatimah@gmail.com", 1, "science", 4.13),
48
       ("Samar", "1998-12-31", 'F', "2014-09-11", "samar@gmail.com", 1, "humanities", 2.30),
49
       ("Raghad", "1998-12-31", 'F', "2014-09-11", "raghad@gmail.com", 1, "science", 4.13),
       ("Rana", "1998-12-31", 'F', "2014-09-11", "rana@gmail.com", 1, "science", 4.13),
50
51
       ("Asmaa", "1998-12-31", 'F', "2009-09-11", "asmaa@gmail.com", 4, "humanities", 4.13),
52
       ("Abrar", "1998-12-31", 'F', "2014-09-11", "abrar@gmail.com", 1, "science", 4.13),
       ("Sara", "1998-12-31", 'F', "2014-09-11", "sara@gmail.com", 1, "humanities", 1.15),
53
       ("Majid", "1998-12-31", 'M', "2014-09-11", "majid@gmail.com", 1, "science", 4.13),
54
       ("Saeed", "1998-12-31", 'M', "2011-09-11", "saeed@gmail.com", 2, "humanities", 4.13),
55
       ("Aziz", "1998-12-31", 'M', "2014-09-11", "aziz@gmail.com", 1, "science", 4.13),
56
       ("Abdullah", "1998-12-31", 'M', "2014-09-11", "abdullah@gmail.com", 1, "science", 4.13),
57
       ("Khalid", "1998-12-31", 'M', "2014-09-11", "khalid@gmail.com", 1, "humanities", 4.13),
58
59
       ("Rashed", "1998-12-31", 'M', "2014-09-11", "rashed@gmail.com", 1, "science", 4.13),
60
       ("Amal", "1998-12-31", 'F', "2008-09-11", "amal@gmail.com", 5, "science", 4.13),
       ("saud", "1998-12-31", 'M', "2014-09-11", "saud@gmail.com", 1, "humanities", 2.13),
61
       ("Mohammed", "1998-12-31", 'M', "2014-09-11", "mohammed@gmail.com", 1, "science", 4.13),
62
       ("Maryam", "1998-12-31", 'F', "2006-09-11", "maryam@gmail.com", 3, "humanities", 4.13),
63
       ("Dania", "1998-12-31", 'F', "2014-09-11", "dania@gmail.com", 1, "science", 4.13),
64
65
       ("Shahad", "1998-12-31", 'F', "2014-09-11", "shahad@gmail.com", 1, "science", 4.13),
66
       ("Ahmed", "1998-12-31", 'M', "2014-09-11", "ahmed@gmail.com", 1, "science", 4.13);
```

• إدخال معلومات ١٠ معلمين كحد أدنى

```
INSERT INTO Teacher (teacher_name, birth_date, gender, teacher_email, office_no)
77 •
       VALUES ("Ahmad", "1987-01-09", 'M', "ahmad@gmail.com", "C312"),
78
       ("Ahmad", "1987-01-09", 'M', "ahmad@gmail.com", "B310"),
79
       ("Abdullah", "1977-01-09", 'M', "Abdullah@gmail.com", "A120"),
80
       ("Shahad", "1997-01-09", 'F', "shahad@gmail.com", "B320"),
81
       ("Ahmad", "1988-01-09", 'M', "ahmad@gmail.com", "A115"),
82
       ("Dania", "1987-01-09", 'F', "dania@gmail.com", "A312"),
83
       ("Aziz", "1978-01-09", 'M', "aziz@gmail.com", "B322"),
84
       ("Mohammed", "1987-01-09", 'M', "mohammed@gmail.com", "A123"),
85
       ("Sara", "1987-01-09", 'F', "sara@gmail.com", "C320"),
86
       ("Nora", "1987-01-09", 'F', "nora@gmail.com", "C312");
87
```

• إدخال معلومات ٦ مواد كحد أدنى

```
INSERT INTO Course (course_name)

VALUES ("Art"),

("Algebra"),

("Calculus"),

("Geography"),

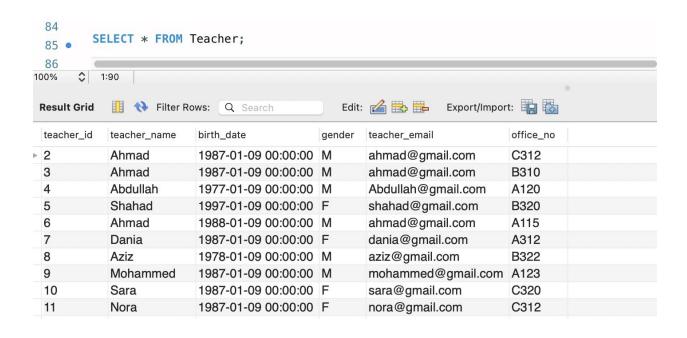
("Religion"),

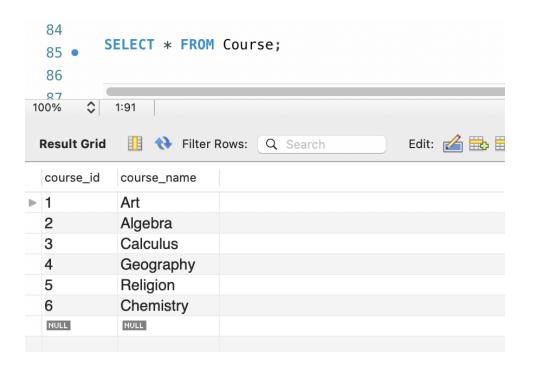
("Chemistry");
```

• عرض محتويات جميع الجداول

122
123
124 • SELECT * FROM Student;

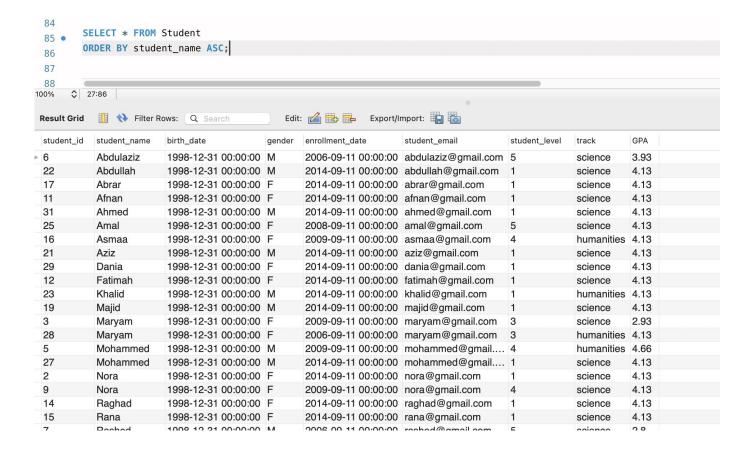
student_id	student_name	birth_date	gender	enrollment_date	student_email	student_level	track	GPA
2	Nora	1998-12-31 00:00:00	F	2014-09-11 00:00:00	nora@gmail.com	1	science	4.13
3	Maryam	1998-12-31 00:00:00	F	2009-09-11 00:00:00	maryam@gmail.com	3	science	2.93
4	Shahad	1998-12-31 00:00:00	F	2011-09-11 00:00:00	shahad@gmail.com	2	science	4.25
5	Mohammed	1998-12-31 00:00:00	M	2009-09-11 00:00:00	mohammed@gmail.com	4	humanities	4.66
6	Abdulaziz	1998-12-31 00:00:00	M	2006-09-11 00:00:00	abdulaziz@gmail.com	5	science	3.93
7	Rashed	1998-12-31 00:00:00	M	2006-09-11 00:00:00	rashed@gmail.com	5	science	2.8
8	Saud	1998-12-31 00:00:00	M	2011-09-11 00:00:00	nora@gmail.com	3	humanities	4.83
9	Nora	1998-12-31 00:00:00	F	2009-09-11 00:00:00	nora@gmail.com	4	science	4.13
10	Sama	1998-12-31 00:00:00	F	2014-09-11 00:00:00	sama@gmail.com	1	humanities	4.18
11	Afnan	1998-12-31 00:00:00	F	2014-09-11 00:00:00	afnan@gmail.com	1	science	4.13
12	Fatimah	1998-12-31 00:00:00	F	2014-09-11 00:00:00	fatimah@gmail.com	1	science	4.13
13	Samar	1998-12-31 00:00:00	F	2014-09-11 00:00:00	samar@gmail.com	1	humanities	2.3
14	Raghad	1998-12-31 00:00:00	F	2014-09-11 00:00:00	raghad@gmail.com	1	science	4.13
15	Rana	1998-12-31 00:00:00	F	2014-09-11 00:00:00	rana@gmail.com	1	science	4.13
16	Asmaa	1998-12-31 00:00:00	F	2009-09-11 00:00:00	asmaa@gmail.com	4	humanities	4.13
17	Abrar	1998-12-31 00:00:00	F	2014-09-11 00:00:00	abrar@gmail.com	1	science	4.13
18	Sara	1998-12-31 00:00:00	F	2014-09-11 00:00:00	sara@gmail.com	1	humanities	1.15
19	Majid	1998-12-31 00:00:00	M	2014-09-11 00:00:00	majid@gmail.com	1	science	4.13
20	Saeed	1998-12-31 00:00:00	M	2011-09-11 00:00:00	saeed@gmail.com	2	humanities	4.13
21	Aziz	1998-12-31 00:00:00	M	2014-09-11 00:00:00	aziz@gmail.com	1	science	4.13
22	Abdullah	1998-12-31 00:00:00	M	2014-09-11 00:00:00	abdullah@gmail.com	1	science	4.13
23	Khalid	1998-12-31 00:00:00	M	2014-09-11 00:00:00	khalid@gmail.com	1	humanities	4.13
24	Rashed	1998-12-31 00:00:00	M	2014-09-11 00:00:00	rashed@gmail.com	1	science	4.13
25	Amal	1998-12-31 00:00:00	F	2008-09-11 00:00:00	amal@gmail.com	5	science	4.13
26	saud	1998-12-31 00:00:00	M	2014-09-11 00:00:00	saud@gmail.com	1	humanities	2.13
27	Mohammed	1998-12-31 00:00:00	M	2014-09-11 00:00:00	mohammed@gmail.com	1	science	4.13
28	Maryam	1998-12-31 00:00:00	F	2006-09-11 00:00:00	maryam@gmail.com	3	humanities	4.13
29	Dania	1998-12-31 00:00:00	F	2014-09-11 00:00:00	dania@gmail.com	1	science	4.13
30	Shahad	1998-12-31 00:00:00	F	2014-09-11 00:00:00	shahad@gmail.com	1	science	4.13
31	Ahmed	1998-12-31 00:00:00	M	2014-09-11 00:00:00	ahmed@gmail.com	1	science	4.13
NULL	NULL	NULL	NULL	NULL	HULL	HULL	NULL	NULL



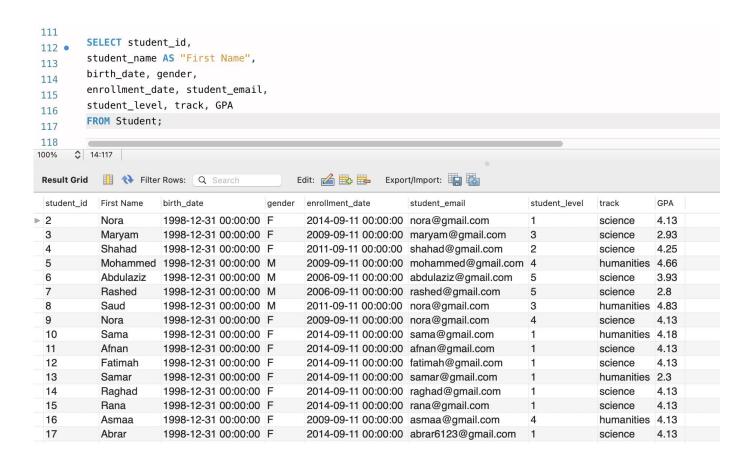


• عرض محتويات جدول الطلاب مع ترتيب الصفوف تصاعدياً حسب اسم الطالب

- -- select all columns from student table
- -- and order the results based on student name in ascending order
- SELECT * FROM Student
 ORDER BY student_name ASC;



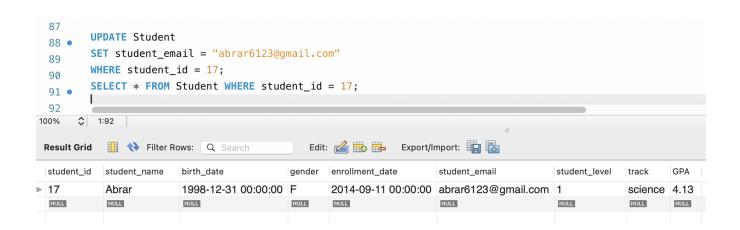
• عرض محتویات جدول الطلاب مع اعطاء اسم مستعار لحقل "اسم الطالب" لاختصار اسم العمود أو جعله ذات معنى.



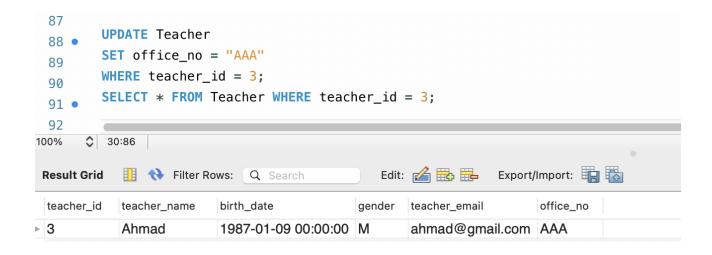
• التعديل على بيانات احد الطلاب وتغيير البريد الالكتروني للطالب

قبل:

17	Abrar	1998-12-31 00:00:00	F	2014-09-11 00:00:00	abrar@gmail.com	1	science	4.13
					J			



• التعديل على بيانات احد المعلمين وتغيير رقم المكتب الخاص به



التعديل على الجداولتعديل اسم احد الجداول

	109							
	110	•	<pre>USE TamayozHighSchool;</pre>					
	111							
	112	•	ALTER TABLE Student					
	113		RENAME TO Student_Updated;					
	114							
	115	•	SHOW TABLES;					
	116							
	117							
1	00%	\$	1:109					
	Resu	ılt Gri	d II Filter Rows: Q Search Export:					
	Tab	les_in_	_tamayozhighschool					
>	Co	urse						
	Stu	dent_	_Updated					
	Tea	acher						