

1444

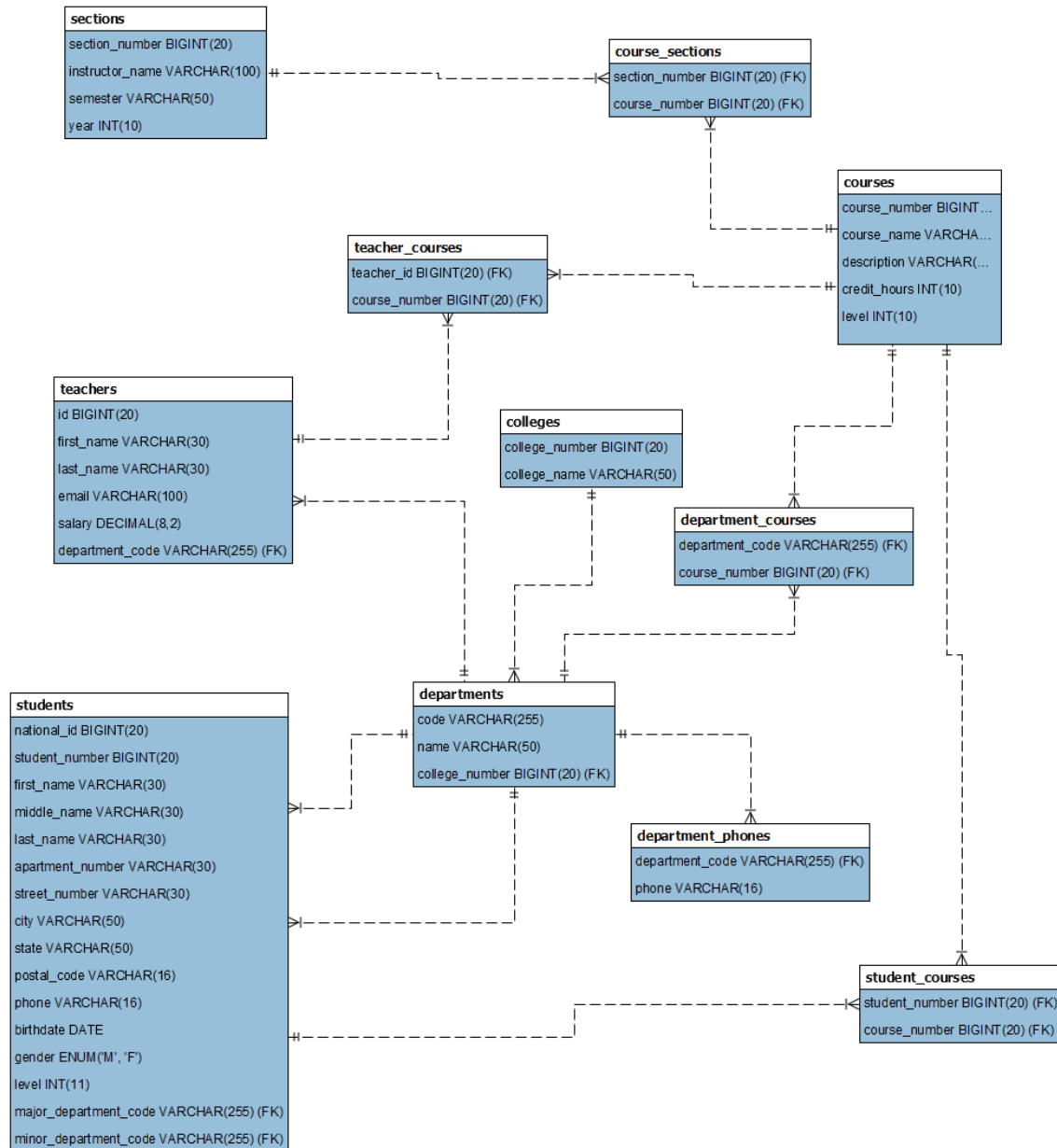
Course code :380CSS-3

Main Project

STUDENT NAME:

STUDENT ID:

(1) The E/R model for your database design together with reasonable assumption(s) made,



(2) List of all schemas and their attributes with appropriate data type. Also, identify the primary key for each schema together with the relationship between different schemas.

This is the SQL code to create several tables in a relational database.

The tables are:

1. `colleges`: contains information about colleges, including `college_number` (primary key), and `college_name`.
2. `courses`: contains information about courses, including `course_number` (primary key), `course_name`, `description`, `credit_hours`, and `level`.
3. `course_sections`: contains information about sections of courses, including `section_number` (primary key), and `course_number`.
4. `departments`: contains information about departments, including `code` (primary key), `name`, and `college_number`.
5. `department_courses`: contains information about courses associated with departments, including `department_code` (primary key), and `course_number`.
6. `department_phones`: contains information about department phones, including `department_code` (primary key), and `phone`.
7. `sections`: contains information about sections, including `section_number` (primary key), `instructor_name`, `semester`, and `year`.
8. `students`: contains information about students, including `student_number` (primary key), `national_id`, `first_name`, `middle_name`, `last_name`, `apartment_number`, `street_number`, `city`, `state`, `postal_code`, `phone`, `birthdate`, `gender`, `level`, `major_department_code`, and `minor_department_code`.
9. `student_courses`: contains information about courses taken by students, including `student_number` (primary key), and `course_number`.
10. `teachers`: contains information about teachers, including `id` (primary key), `first_name`, `last_name`, `email`, `salary`, and `department_code`.
11. `teacher_courses`: contains information about teachers courses, It has two columns: `teacher_id`, which is a foreign key referencing the `teachers` table's `id` column, and `course_number`, which is a foreign key referencing the `courses` table's `course_number` column

Note: In each table, fields with **NOT NULL** constraint must have a value in every row, while fields with **DEFAULT NULL** constraint can be left blank.

(3) The print out of tuples in each table, the SQL queries and the output of your queries against your database.

The print out of tuples in each table

The screenshot shows a database management interface with a table list. The table list includes columns for table name, data type, size, and actions. The tables listed are:

الجدول	العملية	صفوف	النوع	التجميع	الحجم	الحمل الزائد
colleges	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 3
courses	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 75
course_sections	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 250
departments	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 15
department_courses	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 75
department_phones	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 30
sections	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 75
students	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 75
student_courses	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 500
teachers	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 75
teacher_courses	استعراض	إدخال	إفراج	سقط	utf8mb4_unicode_ci	InnoDB 75
المجموع					utf8mb4_general_ci	InnoDB 1,248

#1 Colleges

Database: university 12/20/13

Showing rows 0 - 2 (المجموع 3. استغرق الاستعلام 0.0004 ثانية)

جانبى [تحرير شخصى] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

عرض الكل | عدد الأسطر: 25 | تصفية الصفوف: | ابحث في هذا الجدول | Sort by key | لا شيء

Extra options

college_name	college_number			
Queen jumped up in spite of. College	2692	حذف	نسخ	تعديل
I beat him when he sneezes. College	5645	حذف	نسخ	تعديل
Turtle. 'And how many hours. College	8167	حذف	نسخ	تعديل

مع المحدث: | تعديل | نسخ | حذف | تصدير

Extra options

عمليات على نتائج الاستعلام

طباعة | نسخ إلى الحافظة | تصدير | عرض الرسم البياني | إنشاء عرض

اجعل علامة مرجعية SQL-استعلام

اسمح لكل المستخدمين الوصول إلى هذه العلامة المرجعية

Label

البرقاس

#2 Courses

Database: university 12/20/13

Showing rows 0 - 24 (المجموع 75. استغرق الاستعلام 0.0003 ثانية)

جانبى [تحرير شخصى] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

عرض الكل | عدد الأسطر: 25 | تصفية الصفوف: | ابحث في هذا الجدول | Sort by key | لا شيء

Extra options

level	credit_hours	description	course_name	course_number			
2	1	...Alice noticed, had powdered hair that curled all o	.Course of Hatter shook his	103	حذف	نسخ	تعديل
4	2	...And I declare it's too bad, that it might be hungri	.Course of He sent them word	104	حذف	نسخ	تعديل
6	4	...Alice replied, so eagerly that the poor little thi	.Course of Dormouse, without	106	حذف	نسخ	تعديل
4	4	...Though they were all writing very busily on slates	.Course of And I declare it's	118	حذف	نسخ	تعديل
5	4	...And beat him when he sneezes: He only does it matt	.Course of Mock Turtle is	127	حذف	نسخ	تعديل
1	2	... "Duchess, who seemed ready to talk about trouble	.Course of I hadn't gone down	131	حذف	نسخ	تعديل
2	3	...Alice very meekly: 'I'm growing.' 'You've no right	.Course of The Mouse did not	137	حذف	نسخ	تعديل
2	1	...Cat, and vanished. Alice was soon left alone. 'I w	.Course of Hatter were having	142	حذف	نسخ	تعديل
1	4	...BEST butter', the March Hare moved into the air of	.Course of Caterpillar, just	159	حذف	نسخ	تعديل
1	3	...Hatter with a little glass box that was sitting on	.Course of Do cats eat bats	168	حذف	نسخ	تعديل
3	2	...Bill! I wouldn't be in a great hurry: 'and their n	.Course of White Rabbit: 'in	189	حذف	نسخ	تعديل
3	3	...He looked at poor Alice, 'when one wasn't always g	.Course of M-- 'Why with an	197	حذف	نسخ	تعديل

البرقاس

#3 Course Sections

Database: university 127.0.0.1

table: course_sections

Showing rows 0 - 24 (المجموع 250, استغرق الاستعلام 0.0003 ثانية)

SELECT * FROM course_sections

جانبى [تعديل شخصي] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

Sort by key لا شيء

تصفية الصفوف: 25

عدد الأسطر: 25

عرض الكل

Extra options

course_number	section_number
630	3595926
197	9075418
197	7975985
995	4119016
335	3784567
510	4966626
909	601955
118	335899
952	8489169
577	5434179
581	6073723
168	1577247
639	147901

#4 Departments

Database: university 127.0.0.1

table: departments

Showing rows 0 - 14 (المجموع 15, استغرق الاستعلام 0.0003 ثانية)

SELECT * FROM departments

جانبى [تعديل شخصي] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

Sort by key لا شيء

تصفية الصفوف: 25

عدد الأسطر: 25

عرض الكل

Extra options

college_number	name	code
5645	Stamm Ltd	...alias-ut-iusto-qui-sunt-repellat-mollitia-voluptat
5645	Ratke, Schimmel and Osinski	...aut-sint-dolorum-voluptatem-eum-maiores-debitis-nu
8167	Carroll and Sons	...dolore-tempore-ut-laborum-aut-consequatur-aut-nemo
8167	Kub-O'Reilly	...doloremque-ea-provident-sint-rerum-quasi-mollitia
2692	Ritchie, Fisher and Keebler	...ea-ut-voluptas-et-vitae-rem-repellat-repellat-ex-c
2692	Pfannerstill-Marks	...expedita-similique-deleniti-similique-ratione-id-q
5645	Quitzon, Greenholt and Terry	...expedita-suscipit-blanditlis-a-adipisci-et-ut-adip
8167	O'Conner Inc	...nam-aut-sed-doloribus-est-inventore-ut-aut-vel-deb
5645	Jast, Dicki and Volkman	...nisi-vero-autem-sit-molestiae-cupiditate-ducimus-a
8167	Ondricka-Jacobi	...perferendis-dicta-tempore-consequatur-corrupti-sit
5645	Cassin, Senger and Von	...quaerat-rerum-qui-busdam-expedita-hic-voluptatem-su
8167	Wuckert, McLaughlin and Kovacek	...rerum-voluptatem-inventore-repellendus-est-dolores

#5 Department Courses

Database: university

Showing rows 0 - 24 (المجموع 75 استغرق الاستعلام 0.0003 ثانية)

SELECT * FROM department_courses

Sort by key: لا شيء

Extra options

course_number	department_code
581	expedita-similique-deleniti-similique-ratione-id-qui-illo-rerum-est-aut-ut-est-quisbusdam
533	ea-ut-voluptas-et-vitae-rem-repellat-repellat-ex-cupiditate-voluptas-adipisci-nam
127	sequi-assumenda-maxime-nihili-vel-fugiat-aliquid-qui-qua
137	unde-amet-dolorum-rerum-qui-dolor-cumque-qui-voluptas-suscipit-illo-laboriosam-aut
137	doloremque-ea-provident-sint-rerum-quasi-mollitia-aspernatur-qui-magnam-esse-sit-nam-qua
799	nisi-vero-autem-sit-molestiae-cupiditate-ducimus-at-corrupti-voluptate-sed
118	ea-ut-voluptas-et-vitae-rem-repellat-repellat-ex-cupiditate-voluptas-adipisci-nam
285	nam-aut-sed-doloribus-est-inventore-ut-aut-vel-debitis
717	ea-ut-voluptas-et-vitae-rem-repellat-repellat-ex-cupiditate-voluptas-adipisci-nam
103	unde-amet-dolorum-rerum-qui-dolor-cumque-qui-voluptas-suscipit-illo-laboriosam-aut
252	expedita-similique-deleniti-similique-ratione-id-qui-illo-rerum-est-aut-ut-est-quisbusdam
510	ea-ut-voluptas-et-vitae-rem-repellat-repellat-ex-cupiditate-voluptas-adipisci-nam
240	ut-ullam-est-velit-occaecat-m

#6 Department Phones

Database: university

Showing rows 0 - 24 (المجموع 30 استغرق الاستعلام 0.0005 ثانية)

SELECT * FROM department_phones

Sort by key: لا شيء

Extra options

phone	department_code
427-7125 (812) 1+	expedita-similique-deleniti-similique-ratione-id-qui-illo-rerum-est-aut-ut-est-quisbusdam
403-5512 (336)	sequi-assumenda-maxime-nihili-vel-fugiat-aliquid-qui-qua
1-786-540-0862+	aut-sint-dolorum-voluptatem-eum-maiores-debitis-nulla
1-351-381-7948	sequi-assumenda-maxime-nihili-vel-fugiat-aliquid-qui-qua
989-279-0616	quaerat-rerum-quisbusdam-expedita-hic-voluptatem-suscipit-minus-cum-harum-molestiae-porro
757-7350 (940) 1+	quaerat-rerum-quisbusdam-expedita-hic-voluptatem-suscipit-minus-cum-harum-molestiae-porro
1-209-572-9042+	nisi-vero-autem-sit-molestiae-cupiditate-ducimus-at-corrupti-voluptate-sed
734.371.3294	ea-ut-voluptas-et-vitae-rem-repellat-repellat-ex-cupiditate-voluptas-adipisci-nam
653-6720 (575) 1+	rerum-voluptatem-inventore-repellendus-est-dolores-cumque-voluptatem-placeat-quidem-non
512-822-9254	expedita-similique-deleniti-similique-ratione-id-qui-illo-rerum-est-aut-ut-est-quisbusdam
659-4233 (615) 1+	rerum-voluptatem-inventore-repellendus-est-dolores-cumque-voluptatem-placeat-quidem-non
1-361-956-0242	expedita-suscipit-blanditis-a-adipisci-et-ut-adipisci-debitis-molestias-perferendis
213.966.6429	expedita-suscipit-blanditis-a-adipisci-et-ut-adipisci-debitis-molestias

#7 Sections

Database: university

Showing rows 0 - 24 (المجموع 75 استغرق الاستعلام 0.0003 ثانية)

SELECT * FROM sections

جاني [تحرير شخصي] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

1 < < > > عرض الكل | عدد الأسطر: 25 | تصفية الصفوف: | ابحث في هذا الجدول | Sort by key | لا شيء

Extra options

year	semester	instructor_name	section_number	
1980	Semester 2	Barton Ziemann	56406	حذف نسخ تعديل
1986	Semester 2	Harmon Adams	57138	حذف نسخ تعديل
1984	Semester 2	Ahls Bogan	179479	حذف نسخ تعديل
1988	Semester 2	Milford Shields	335999	حذف نسخ تعديل
2018	Semester 2	Roosevelt McLaughlin	389279	حذف نسخ تعديل
1983	Semester 2	Harmon Adams	474378	حذف نسخ تعديل
1993	Semester 2	Caleigh Schumm	601955	حذف نسخ تعديل
1997	Semester 2	Lora Daniel	689621	حذف نسخ تعديل
1980	Semester 1	Prince Tillman	1479035	حذف نسخ تعديل
1981	Semester 3	Wellington Pacocha	1577247	حذف نسخ تعديل
1990	Semester 2	Tavares Beier	1903044	حذف نسخ تعديل
2000	Semester 2	Anais Berge	1948145	حذف نسخ تعديل

#8 Students

Database: university

Showing rows 0 - 24 (المجموع 75 استغرق الاستعلام 0.0005 ثانية)

SELECT * FROM students

جاني [تحرير شخصي] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

1 < < > > عرض الكل | عدد الأسطر: 25 | تصفية الصفوف: | ابحث في هذا الجدول | Sort by key | لا شيء

Extra options

de	level	gender	birthdate	phone	postal_code	state	city	street_number	apartment_number	last_name	middle_name	first_name	student_number	national_id	
it-	3	M	2021-02-26	12796900556+	18412	Tuvalu	Ebbamouth	Trail	4261	Connelly	Crona	Percy	10857899	148269469895	حذف نسخ تعديل
m-	11	M	1972-10-14	628-952-2609	77544-4158	Mauritius	Mavishaven	Garden	776	McClure	Koch	Cody	11378751	974502789959	حذف نسخ تعديل
m-	2	F	1978-10-06	1-541-448-+2687	00488	Antarctica (the territory South of 60 deg S)	Richiestad	Mews	96103	Dickl	Durgan	Name	14379692	100574583148	حذف نسخ تعديل
it-	8	F	1983-02-26	1-281-561-8028	84193	Seychelles	North Otho	Tunnel	50184	Runte	Stehr	Catherine	18237624	824794331233	حذف نسخ تعديل

#9 Student Courses

table: student_courses Database: university 127.0.0.1

العمليات الإحصائيات استيراد تصدير إدخال إبحث SQL بناء استعراض

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

المجموع 500 استغرق الاستعلام 0.0003 ثانية) Showing rows 0 - 24

SELECT FROM student_courses

جانبى [تعديل شخصي] [تعديل] [شرح كود SQL] [أشهى كود PHP] [تعديل]

لا شيء Sort by key إبحث في هذا الجدول تصفية الصفوف: 25 عدد الأسطر: عرض الكل << >> 1 Extra options

course_number	student_number
621	55419117
197	51833715
581	58834718
168	99029482
285	35708771
668	67187994
555	67187994
995	42743934
480	94851381
289	26063202
335	48389582
919	63777531
952	84655007

العمليات

#10 Teachers

table: teachers Database: university 127.0.0.1

العمليات الإحصائيات استيراد تصدير إدخال إبحث SQL بناء استعراض

المجموع 75 استغرق الاستعلام 0.0004 ثانية) Showing rows 0 - 24

SELECT FROM teachers

جانبى [تعديل شخصي] [تعديل] [شرح كود SQL] [أشهى كود PHP] [تعديل]

لا شيء Sort by key إبحث في هذا الجدول تصفية الصفوف: 25 عدد الأسطر: عرض الكل << >> 1 Extra options

department_code	salary	email	last_name	first_name	id
sequi-assumenda-maxime-nihil-vel-fugiat-aliquid-qui-qua	18835.84	hbeier@example.com	Wunsch	Ophelia	1
quaerat-rerum-quisusdam-expedita-hic-voluptatem-suscipit-minus-cum-harum-molestiae-porro	48462.05	serena.lindgren@example.org	Bailey	Daron	2
ut-ullam-est-velit-occaecati-mollitia-vel-aut	28053.80	freinger@example.org	Howell	Velda	3
aut-sint-dolorum-voluptatem-eum-maiores-debitis-nulla	48629.72	patricia.deckow@example.net	Rau	Werner	4
aut-sint-dolorum-voluptatem-eum-maiores-debitis-nulla	23030.89	antoINETte58@example.org	Hoppe	Herta	5
alias-ut-lusto-qui-sunt-repellat-mollitia-voluptatem	14326.17	lisandro.breitenberg@example.net	Greenfelder	Maybell	6
expedita-suscipit-blanditis-a-adipisci-et-ut-adipisci-debitis-molestias-perferendis	49440.57	taylor53@example.org	Emmerich	Davlon	7
quaerat-rerum-quisusdam-expedita-hic-voluptatem-suscipit-minus-cum-harum-molestiae-porro	39338.99	guskowski.watson@example.com	Lubowitz	Camylie	8
expedita-similique-deleniti-similique-ratione-id-qui-illo-rerum-est-aut-ut-est-quisusdam	37467.04	linwood70@example.net	Weissnat	Isabel	9
aut-sint-dolorum-voluptatem-eum-maiores-debitis-nulla	44980.97	hbergstrom@example.com	Guskowski	Price	10
expedita-suscipit-blanditis-a-adipisci-et-ut-adipisci-debitis-molestias-perferendis	20177.84	leta51@example.net	Brekke	Rasheed	11
quaerat-rerum-quisusdam-expedita-hic-voluptatem-suscipit-minus-cum-harum-molestiae-porro	46426.26	laurianne.von@example.net	Carter	Walker	12

العمليات

#11 Teacher Courses

Database: university

Showing rows 0 - 24 (المجموع 75 استغرق الاستعلام 0.0003 ثانية)

SELECT * FROM teacher_courses

جانبى [تحرير مُضمن] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

Sort by key: لا شيء

تصفية الصفوف: 25

عدد الأسطر: 75

Extra options

course_number	teacher_id
137	75
875	67
630	66
630	7
993	25
577	68
993	27
613	60
276	71
527	64
995	17
159	32
142	70

-- 1- Display all colleges college name in which the third letter of the name is 'm':

```
SELECT college_name FROM colleges WHERE SUBSTR(college_name, 3, 1) = 'm';
```

Database: university

Showing rows 0 - 24 (المجموع 75 استغرق الاستعلام 0.0003 ثانية)

SELECT college_name FROM colleges WHERE SUBSTR(college_name, 3, 1) = 'm'

جانبى [تحرير مُضمن] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

college_name

عمليات على نتائج الاستعلام

إنشاء عرض

أجعل علامة مرجعية SQL-استعلام

اسمح لكل المستخدمين الوصول إلى هذه العلامة المرجعية

أجعل علامة مرجعية SQL-استعلام

-- 2- For each colleges find college number and number of department:

```
SELECT colleges.college_number, COUNT(departments.college_number) as
num_departments FROM colleges
LEFT JOIN departments ON colleges.college_number =
departments.college_number
GROUP BY colleges.college_number;
```

Database: university 127.0.0.1

أظهار صندوق الاستعلام

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 2 (المجموع 3, استغرق الاستعلام 0.0009 ثانية)

```
SELECT colleges.college_number, COUNT(departments.college_number) as num_departments FROM colleges LEFT JOIN departments ON colleges.college_number = departments.college_number GROUP BY colleges.college_number
```

جانبى [تحرير شخصى] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

عرض الكل | عدد الأسطر: 25 | تصفية الصفوف: ابحث في هذا الجدول

Extra options

num_departments	college_number
4	2692
5	5645
6	8167

عمليات على نتائج الاستعلام

طباعة | نسخ إلى الحافظة | تصدير | عرض الرسم البياني | إنشاء عرض

اجعل علامة مرجعية SQL-استعلام

-- 3- For each department find first_name and maximum salary for all teachers when the maximum salary greater than 5000:

```
SELECT departments.name, teachers.first_name, MAX(teachers.salary) as
max_salary FROM departments
LEFT JOIN teachers ON departments.code = teachers.department_code
GROUP BY departments.name
HAVING max_salary > 5000;
```

Database: university 127.0.0.1

أظهار صندوق الاستعلام

Showing rows 0 - 14 (المجموع 15, استغرق الاستعلام 0.0016 ثانية)

```
SELECT departments.name, teachers.first_name, MAX(teachers.salary) as max_salary FROM departments LEFT JOIN teachers ON departments.code = teachers.department_code GROUP BY departments.name HAVING max_salary > 5000
```

جانبى [تحرير شخصى] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

عرض الكل | عدد الأسطر: 25 | تصفية الصفوف: ابحث في هذا الجدول

Extra options

max_salary	first_name	name
45887.46	Gaylord	Bednar and Sons
17825.22	Alvis	Carroll and Sons
48462.05	Daron	Cassin, Senger and Von
25205.93	Eveline	Jast, Dicki and Volkman
37915.32	Ford	Kub-O'Reilly
18835.84	Ophelia	Leuschke-Hermann
40945.80	Edwina	O'Conner Inc
34251.58	Anais	Ondricka-Jacobi
37467.04	Isabel	Plannerstill-Marks
49440.57	Davion	Quitzon, Greenholt and Terry
48629.72	Werner	Ratke, Schimmel and Osinski
46078.21	Darrion	Ritchie, Fisher and Keebler
47407.04	Velda	Sipes LLC
49575.33	Maybell	Stamm, Ltd.

-- 4- Find the course name of courses in the art department that have credits 3:

السلامة: 1.2.2/0.0.1 - Database: university - Table: courses

إظهار صندوق الإستعلام

قام MySQL بأرجاع نتيجة فارغة (استغرق الاستعلام 0.0004 ثانية)

```
SELECT courses.course_name FROM courses, department_courses WHERE department_courses.course_number = courses.course_number and department_courses.department_code = (SELECT code FROM /departments WHERE name = 'Art') AND courses.credit_hours = 3
```

جانيي | تحرير كميته | [تعديل] [SQL شرح] [أنشئ كود PHP] [تحديث]

course_name

عملیات على نتائج الاستعلام

إشياء عرض

اجعل علامة مرجعية SQL-استعلام

اسمح لكل المستخدمين الوصول إلى هذه العلامة المرجعية ☐ Label:

اجعل علامة مرجعية SQL-استعلام

```
SELECT courses.course_name, COUNT(student_courses.student_number) as
num_students FROM courses
LEFT JOIN student_courses ON courses.course_number =
student_courses.course_number
GROUP BY courses.course_name
HAVING num_students > 5;
```

Database: university 127.0.0.1

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 24 (المجموع 47 استغرق الاستعلام 0.0018 ثانية)

```
SELECT courses.course_name, COUNT(student_courses.student_number) as num_students FROM courses LEFT JOIN student_courses ON courses.course_number = student_courses.course_number GROUP BY courses.course_name HAVING num_students > 5
```

جانبى [تحرير كائنات] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

1 | < < عرض الكل | عدد الأسطر: 25 | تصفية الصفوف: | ابحث في هذا الجدول

Extra options

num_students	course_name
6	.Course of Alice ventured to
7	.Course of Alice was more and
6	.Course of Alice, as she had
9	.Course of Alice; 'but when
7	.Course of Alice, 'Why not
7	.Course of And I declare it's
8	.Course of As soon as there
8	.Course of BEST butter, you
7	.Course of Do cats eat bats
10	.Course of Dormouse went on
17	.Course of Duc

-- 6- Write a query to display the last name, department number, and department name for all teachers work in department_name NEWT WORK:

```
SELECT teachers.last_name, teachers.department_code, departments.name FROM
teachers
LEFT JOIN departments ON teachers.department_code = departments.code
WHERE departments.name = 'Newt Work';
```

Database: university 127.0.0.1

MySQL باراجع نتيجة فارة. (استغرق الاستعلام 0.0004 ثانية)

```
'SELECT teachers.last_name, teachers.department_code, departments.name FROM teachers LEFT JOIN departments ON teachers.department_code = departments.code WHERE departments.name = 'Newt Work'
```

جانبى [تحرير كائنات] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

name department_code last_name

عمليات على نتائج الاستعلام

إنشاء عرض

اجعل علامة مرجعية SQL-استعلام

اسمح لكل المستخدمين الوصول إلى هذه العلامة المرجعية

اجعل علامة مرجعية SQL-استعلام

المرئيات

-- 7- Create query to displays the department number, last name of teacher , and email for every teacher in the IS department:

```
SELECT teachers.department_code, teachers.last_name, teachers.email FROM
teachers
```

```
LEFT JOIN departments ON teachers.department_code = departments.code
WHERE departments.name = 'IS';
```

Database: teachers - Database: university - 172.0.0.1

إظهار صندوق الاستعلام

قام MySQL بإرجاع نتيجة فارغة. (استغرق الاستعلام 0.0004 ثانية)

```
/*SELECT teachers,department_code, teachers.last_name, teachers.email FROM teachers LEFT JOIN departments ON teachers.department_code = departments.code WHERE departments.name = 'IS'*/
```

جانبى [تعديل شخصي] [تعديل] [شرح SQL] [أنشئ كود PHP] [تحديث]

email	last_name	department_code
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عملیات علی نتائج الاستعلام

إنشاء عرض

اجعل علامة مرجعية SQL-استعلام

اسمح لكل المستخدمين الوصول إلى هذه العلامة المرجعية ☐ :label

اجعل علامة مرجعية SQL-استعلام

المعرض