

CS-313 - Assignment 4

Monu Kumar Soyal - 200010029

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Answer 1

SQL commands to create a user called universityDB0029

*create user universityDB0029@localhost identified by 'Password*123';
grant all privileges on universityDB0029.* to universityDB0029@localhost;*

```
mysql> create user universityDB0029@localhost identified by 'Password*123';  
Query OK, 0 rows affected (0.42 sec)  
  
mysql> grant all privileges on universityDB0029.* to universityDB0029@localhost;  
Query OK, 0 rows affected (0.02 sec)
```

Terminal command to login with universityDB0029 user

mysql -u universityDB0029 -p

```
monusoyal@DESKTOP-C7BLGHJ:~$ mysql -u universityDB0029 -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 20  
Server version: 8.0.30-0ubuntu0.22.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2022, Oracle and/or its affiliates.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

Answer 2

SQL command to create the university database

create database university;

```
mysql> create database university;  
Query OK, 1 row affected (0.04 sec)
```

Answer 3

SQL command to connect the database

use university;

```
mysql> use university;  
Database changed
```

Answer 4

SQL command to run the DDL.sql file for creating the tables in university database

source DDL.sql

```
mysql> source DDL.sql  
Query OK, 0 rows affected (0.46 sec)  
  
Query OK, 0 rows affected (0.16 sec)  
  
Query OK, 0 rows affected (0.18 sec)  
  
Query OK, 0 rows affected (0.09 sec)  
  
Query OK, 0 rows affected (0.19 sec)  
  
Query OK, 0 rows affected (0.16 sec)  
  
Query OK, 0 rows affected (0.14 sec)  
  
Query OK, 0 rows affected (0.16 sec)  
  
Query OK, 0 rows affected (0.17 sec)  
  
Query OK, 0 rows affected (0.09 sec)  
  
Query OK, 0 rows affected (0.16 sec)
```

Answer 5

SQL command to run the InsertValues.sql file for loading the data into tables

source InsertValues.sql

```
mysql> source InsertValues.sql
Query OK, 0 rows affected (0.02 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.02 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)
```

Answer 6

SQL commands to get the details of the tables of university database

1. advisor table

*select table_name, column_name, data_type
from information_schema.columns
where table_name = "advisor";*

```
mysql> select table_name, column_name, data_type from information_schema.column
s where table_name = "advisor";
+-----+-----+-----+
| TABLE_NAME | COLUMN_NAME | DATA_TYPE |
+-----+-----+-----+
| advisor     | s_ID        | varchar    |
| advisor     | i_ID        | varchar    |
+-----+-----+-----+
2 rows in set (0.01 sec)
```

2. classroom table

*select table_name, column_name, data_type
from information_schema.columns
where table_name = "classroom";*

```
mysql> select table_name, column_name, data_type from information_schema.columns  
where table_name = "classroom";  
+-----+-----+-----+  
| TABLE_NAME | COLUMN_NAME | DATA_TYPE |  
+-----+-----+-----+  
| classroom   | building    | varchar    |  
| classroom   | room_number | varchar    |  
| classroom   | capacity    | decimal    |  
+-----+-----+-----+  
3 rows in set (0.00 sec)
```

3. course table

*select table_name, column_name, data_type
from information_schema.columns
where table_name = "course";*

```
mysql> select table_name, column_name, data_type from information_schema.columns  
where table_name = "course";  
+-----+-----+-----+  
| TABLE_NAME | COLUMN_NAME | DATA_TYPE |  
+-----+-----+-----+  
| course       | course_id   | varchar    |  
| course       | title       | varchar    |  
| course       | dept_name   | varchar    |  
| course       | credits     | decimal    |  
+-----+-----+-----+  
4 rows in set (0.01 sec)
```

4. department table

*select table_name, column_name, data_type
from information_schema.columns
where table_name = "department";*

```
mysql> select table_name, column_name, data_type from information_schema.columns
where table_name = "department";
```

TABLE_NAME	COLUMN_NAME	DATA_TYPE
department	dept_name	varchar
department	building	varchar
department	budget	decimal

```
3 rows in set (0.01 sec)
```

5. instructor table

*select table_name, column_name, data_type
from information_schema.columns
where table_name = "instructor";*

```
mysql> select table_name, column_name, data_type from information_schema.columns
where table_name = "instructor";
```

TABLE_NAME	COLUMN_NAME	DATA_TYPE
instructor	ID	varchar
instructor	name	varchar
instructor	dept_name	varchar
instructor	salary	decimal

```
4 rows in set (0.01 sec)
```

6. prereq table

*select table_name, column_name, data_type
from information_schema.columns
where table_name = "prereq";*

```
mysql> select table_name, column_name, data_type from information_schema.columns
where table_name = "prereq";
```

TABLE_NAME	COLUMN_NAME	DATA_TYPE
prereq	course_id	varchar
prereq	prereq_id	varchar

```
2 rows in set (0.01 sec)
```

7. section table

```
select table_name, column_name, data_type  
from information_schema.columns  
where table_name = "section";
```

```
mysql> select table_name, column_name, data_type from information_schema.columns  
where table_name = "section";  
+-----+-----+-----+  
| TABLE_NAME | COLUMN_NAME | DATA_TYPE |  
+-----+-----+-----+  
| section     | course_id   | varchar    |  
| section     | sec_id      | varchar    |  
| section     | semester    | varchar    |  
| section     | year        | decimal    |  
| section     | building    | varchar    |  
| section     | room_number | varchar    |  
| section     | time_slot_id | varchar    |  
+-----+-----+-----+  
7 rows in set (0.01 sec)
```

8. student table

```
select table_name, column_name, data_type  
from information_schema.columns  
where table_name = "student";
```

```
mysql> select table_name, column_name, data_type from information_schema.columns  
where table_name = "student";  
+-----+-----+-----+  
| TABLE_NAME | COLUMN_NAME | DATA_TYPE |  
+-----+-----+-----+  
| student     | ID          | varchar    |  
| student     | name        | varchar    |  
| student     | dept_name   | varchar    |  
| student     | tot_cred    | decimal    |  
+-----+-----+-----+  
4 rows in set (0.01 sec)
```

9. takes table

```
select table_name, column_name, data_type  
from information_schema.columns  
where table_name = "takes";
```

```
mysql> select table_name, column_name, data_type from information_schema.columns
where table_name = "takes";
```

TABLE_NAME	COLUMN_NAME	DATA_TYPE
takes	ID	varchar
takes	course_id	varchar
takes	sec_id	varchar
takes	semester	varchar
takes	year	decimal
takes	grade	varchar

```
6 rows in set (0.00 sec)
```

10. teaches table

*select table_name, column_name, data_type
from information_schema.columns
where table_name = "teaches";*

```
mysql> select table_name, column_name, data_type from information_schema.columns
where table_name = "teaches";
```

TABLE_NAME	COLUMN_NAME	DATA_TYPE
teaches	ID	varchar
teaches	course_id	varchar
teaches	sec_id	varchar
teaches	semester	varchar
teaches	year	decimal

```
5 rows in set (0.00 sec)
```

11. time_slot table

*select table_name, column_name, data_type
from information_schema.columns
where table_name = "time_slot";*

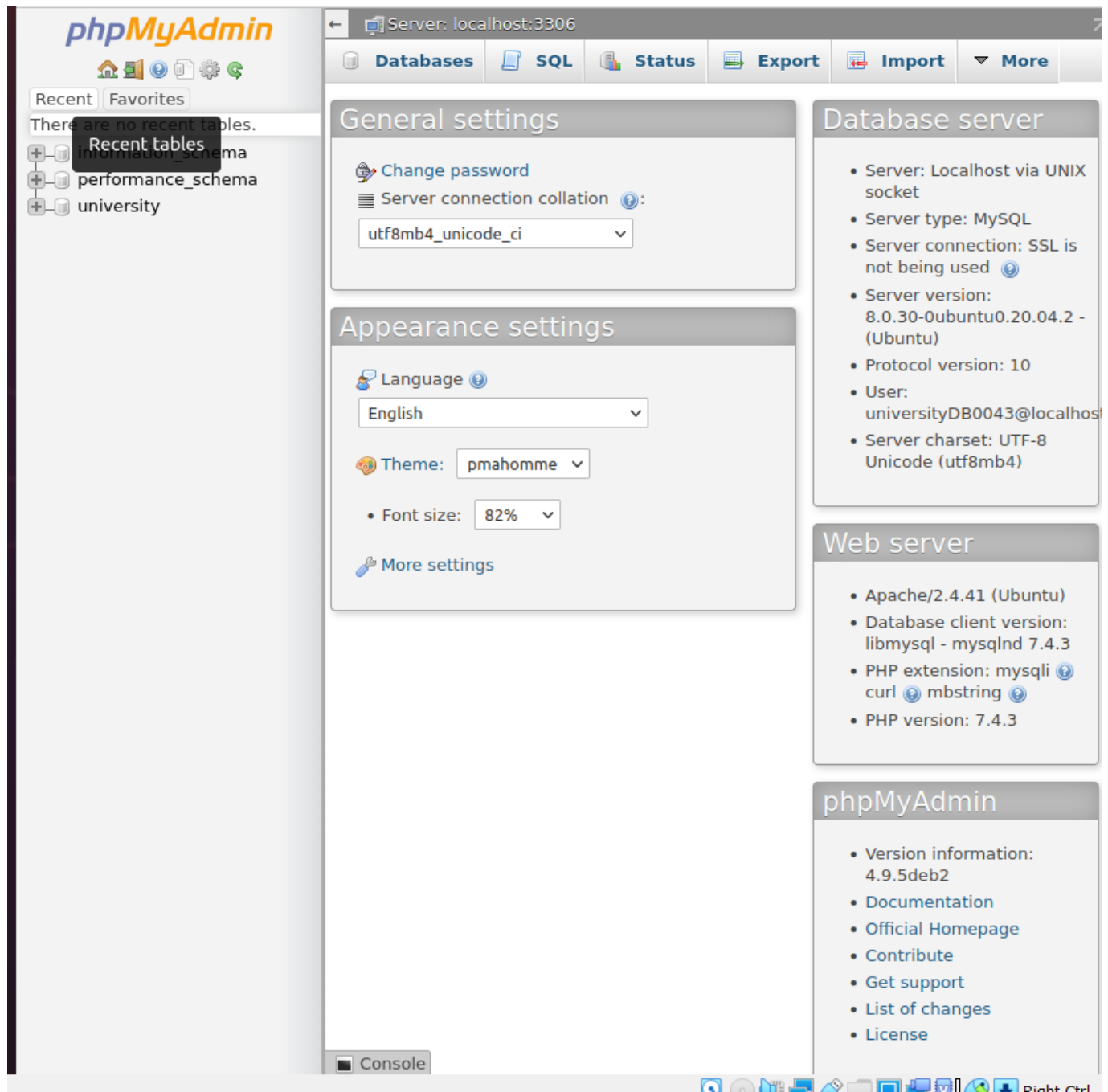
```
mysql> select table_name, column_name, data_type from information_schema.columns
where table_name = "time_slot";
```

TABLE_NAME	COLUMN_NAME	DATA_TYPE
time_slot	time_slot_id	varchar
time_slot	day	varchar
time_slot	start_hr	decimal
time_slot	start_min	decimal
time_slot	end_hr	decimal
time_slot	end_min	decimal

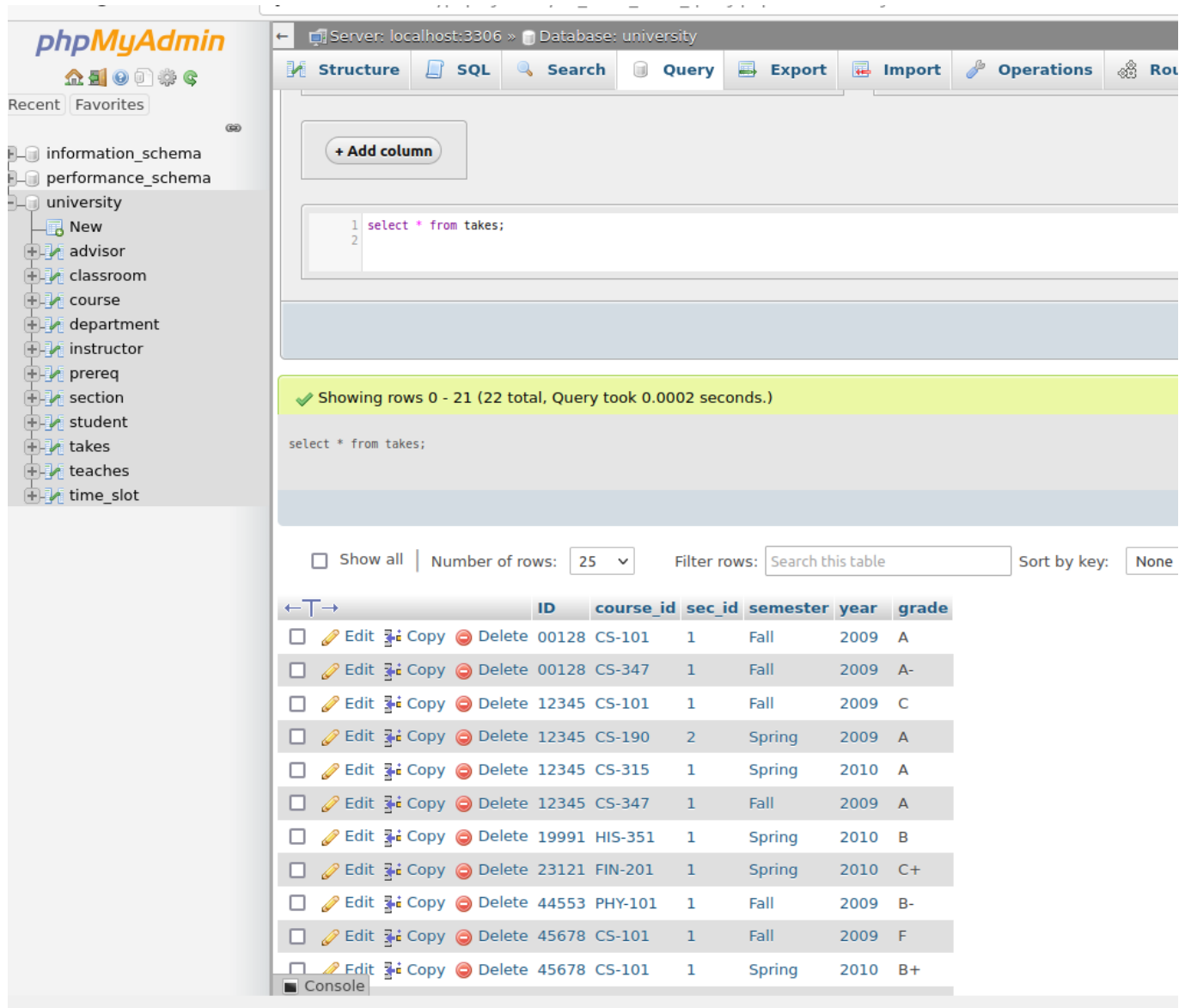
```
6 rows in set (0.01 sec)
```

Answer 7

1. Interface after login



2. university database on Phpmyadmin



The screenshot shows the phpMyAdmin interface for the 'university' database. The left sidebar lists the database structure, including tables like 'advisor', 'classroom', 'course', 'department', 'instructor', 'prereq', 'section', 'student', 'takes', 'teaches', and 'time_slot'. The main panel shows the 'takes' table selected. The SQL query 'select * from takes;' is entered and executed, displaying 22 rows of data. The table has columns: ID, course_id, sec_id, semester, year, and grade.

	ID	course_id	sec_id	semester	year	grade
<input type="checkbox"/> Edit Copy Delete	00128	CS-101	1	Fall	2009	A
<input type="checkbox"/> Edit Copy Delete	00128	CS-347	1	Fall	2009	A-
<input type="checkbox"/> Edit Copy Delete	12345	CS-101	1	Fall	2009	C
<input type="checkbox"/> Edit Copy Delete	12345	CS-190	2	Spring	2009	A
<input type="checkbox"/> Edit Copy Delete	12345	CS-315	1	Spring	2010	A
<input type="checkbox"/> Edit Copy Delete	12345	CS-347	1	Fall	2009	A
<input type="checkbox"/> Edit Copy Delete	19991	HIS-351	1	Spring	2010	B
<input type="checkbox"/> Edit Copy Delete	23121	FIN-201	1	Spring	2010	C+
<input type="checkbox"/> Edit Copy Delete	44553	PHY-101	1	Fall	2009	B-
<input type="checkbox"/> Edit Copy Delete	45678	CS-101	1	Fall	2009	F
<input type="checkbox"/> Edit Copy Delete	45678	CS-101	1	Spring	2010	B+

3. Insert and select operations on tables

(i). advisor table

***INSERT INTO 'advisor' ('s_ID', 'i_ID') VALUES('10001', '30001');
SELECT * FROM advisor WHERE advisor.s_ID = '10001';***

✓ 1 row inserted. (Query took 0.0968 seconds.)

```
INSERT INTO `advisor` (`s_ID`, `i_ID`) VALUES ('10001', '30001');
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

```
SELECT * FROM advisor WHERE advisor.s_ID='10001';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	s_ID	i_ID
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10001	30001

↑ ☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

(ii). classroom table

INSERT INTO 'classroom' ('building', 'room_number', 'capacity') VALUES('H9', '33', '6');
*SELECT * FROM classroom WHERE classroom.capacity = '6';*

✓ 1 row inserted. (Query took 0.0737 seconds.)

```
INSERT INTO `classroom` (`building`, `room_number`, `capacity`) VALUES ('H9', '33', '6');
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

```
SELECT * FROM classroom WHERE classroom.capacity = '6';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	building	room_number	capacity
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	H9	33	6

↑ ☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

(iii). course table

INSERT INTO 'course' ('course_id', 'title', 'dept_name', 'credits') VALUES('CS-404', 'Intro to Mathematical Computing', 'Comp. Sci.', 5);
*SELECT * FROM course ORDER BY credits desc;*

✓ 1 row inserted. (Query took 0.0273 seconds.)

```
insert into course VALUES('CS-404', 'Intro to Mathematical Computing', 'Comp. Sci.', 5)
```

[Edit inline]

✓ Showing rows 0 - 13 (14 total, Query took 0.0004 seconds.) [credits: 5... - 3...]

```
select * from course order by credits desc
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Cr

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	course_id	title	dept_name	credits
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	CS-404	Intro to Mathematical Computing	Comp. Sci.	5
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	BIO-101	Intro. to Biology	Biology	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	BIO-301	Genetics	Biology	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	CS-101	Intro. to Computer Science	Comp. Sci.	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	CS-190	Game Design	Comp. Sci.	4
<input checked="" type="checkbox"/> Console	PHX-101	Physical Principles	Physics	4

(iv). course table

INSERT INTO 'course' ('course_id', 'title', 'dept_name', 'credits')
VALUES('CS-404', 'Intro to Mathematical Computing', 'Comp. Sci.',
5);
SELECT * FROM course ORDER BY credits desc;

✓ 1 row inserted. (Query took 0.0273 seconds.)

```
insert into course VALUES('CS-404', 'Intro to Mathematical Computing', 'Comp. Sci.', 5)
```

[Edit inline]

✓ Showing rows 0 - 13 (14 total, Query took 0.0004 seconds.) [credits: 5... - 3...]

```
select * from course order by credits desc
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Cr

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	course_id	title	dept_name	credits
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	CS-404	Intro to Mathematical Computing	Comp. Sci.	5
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	BIO-101	Intro. to Biology	Biology	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	BIO-301	Genetics	Biology	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	CS-101	Intro. to Computer Science	Comp. Sci.	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	CS-190	Game Design	Comp. Sci.	4
<input checked="" type="checkbox"/> Console	PHX-101	Physical Principles	Physics	4

(v). department table

```
INSERT INTO `department` (`dept_name`, `building`, `budget`)  
VALUES('ME', 'Watson', 20000);  
SELECT * FROM department WHERE department.dept_name = 'ME';
```

✓ 1 row inserted. (Query took 0.0743 seconds.)

```
INSERT INTO `department` (`dept_name`, `building`, `budget`) VALUES ('ME','Watson',20000);
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

```
SELECT * FROM department WHERE department.dept_name = 'ME';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	dept_name	building	budget
<input type="checkbox"/> Edit <input type="image"/> Copy <input type="image"/> Delete	ME	Watson	20000.00

↑ ☐ Check all With selected: Edit Copy Delete Export

(vi). instructor table

```
INSERT INTO `instructor` (`ID`, `name`, `dept_name`, `salary`)  
VALUES('30001', 'pranjal', 'ME', 30000);  
SELECT * FROM instructor WHERE instructor.dept_name = 'ME';
```

✓ 1 row inserted. (Query took 0.1999 seconds.)

```
INSERT INTO `instructor` (`ID`, `name`, `dept_name`, `salary`) VALUES ('30001','Pranjal','ME',30000);
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)

```
SELECT * FROM instructor WHERE instructor.dept_name = 'ME';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	ID	name	dept_name	salary
<input type="checkbox"/> Edit <input type="image"/> Copy <input type="image"/> Delete	30001	Pranjal	ME	30000.00

↑ ☐ Check all With selected: Edit Copy Delete Export

(vii). prereq table

```
INSERT INTO 'prereq' ('course_id', 'prereq_id')
VALUES('RR-101', 'BIO-301');
SELECT * FROM prereq WHERE courseid = 'RR-101';
```

✓ 1 row inserted. (Query took 0.0385 seconds.)

```
INSERT INTO `prereq` (`course_id`, `prereq_id`) VALUES ('RR-101','BIO-301');
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)

```
SELECT * FROM prereq where course_id = 'RR-101';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	course_id	prereq_id
<input type="checkbox"/>	RR-101	BIO-301

↑ ☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

(viii). section table

```
INSERT INTO 'section' ('course_id', 'sec_id', 'semester', 'year', 'building', 'room_number', 'time_slot_id')
VALUES('RR-101', '2', 'summer', '2022', 'H9', '33', 'C');
SELECT * FROM section WHERE year = 2022;
```

✓ 1 row inserted. (Query took 0.0599 seconds.)

```
INSERT INTO `section` (`course_id`, `sec_id`, `semester`, `year`, `building`, `room_number`, `time_slot_id`) VALUES ('RR-101','2','Summer',2022,'H9','33','C');
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)

```
SELECT * FROM section WHERE year=2022;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	course_id	sec_id	semester	year	building	room_number	time_slot_id
<input type="checkbox"/>	RR-101	2	Summer	2022	H9	33	C

↑ ☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

(ix). student table

```
INSERT INTO 'student' ('ID', 'name', 'dept_name', 'tot_cred')
VALUES('10001', 'Sanjay', 'ME', '36');
SELECT * FROM student WHERE student.name = 'Sanjay';
```

✓ 1 row inserted. (Query took 0.0640 seconds.)

```
INSERT INTO `student`(`ID`, `name`, `dept_name`, `tot_cred`) VALUES ('10001','Sanjay','ME','36');
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

```
SELECT * FROM `student` WHERE student.name = 'Sanjay';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	ID	name	dept_name	tot_cred
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10001	Sanjay	ME	36

↑ ☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

(x). takes table

```
INSERT INTO `time_slot` (`ID`, `course_id`, `sec_id`, `semester`, `year`, `grade`)
VALUES('10001', 'RR-101', '2', 'Summer', 2022, 'F');
SELECT * FROM time_slot WHERE grade = 'F';
```

✓ 1 row inserted. (Query took 0.0679 seconds.)

```
INSERT INTO `takes`(`ID`, `course_id`, `sec_id`, `semester`, `year`, `grade`) VALUES ('10001','RR-101','2','Summer',2022,'F');
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 1 (2 total, Query took 0.0005 seconds.)

```
SELECT * FROM takes WHERE grade = 'F';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	ID	course_id	sec_id	semester	year	grade
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10001	RR-101	2	Summer	2022	F
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	45678	CS-101	1	Fall	2009	F

↑ ☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

(xi). time_slot table

```
INSERT INTO `takes` (`ID`, `time_slot_id`, `day`, `start_hr`, `start_min`, `end_hr`)
VALUES('C', 'S', '12', '30', '14', '30');
SELECT * FROM takes WHERE day = '5';
```

✓ 1 row inserted. (Query took 0.0551 seconds.)

```
INSERT INTO `time_slot`(`time_slot_id`, `day`, `start_hr`, `start_min`, `end_hr`, `end_min`) VALUES ('C','S','12','30','14','30');
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)

```
SELECT * FROM time_slot WHERE day = 'S';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	time_slot_id	day	start_hr	start_min	end_hr	end_min
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	C	S	12	30	14	30

☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

Answer 8

localhost/phpmyadmin/index.php?route=/table/sql&db=university&table=section

Server: localhost:3306 » Database: university » Table: section

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

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

✓ Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.) [name: KATZ... - KATZ...]

```
SELECT DISTINCT inst.ID,inst.name,teaches.course_id,course.title FROM instructor AS inst,teaches,course,section WHERE inst.ID in (SELECT ID FROM instructor WHERE dept_name = 'Comp. Sci.') AND inst.ID = teaches.ID AND teaches.course_id = course.course_id AND course.course_id = section.course_id AND course.dept_name = 'Civil' and section.year = '2009' ORDER BY inst.name ASC;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

ID	name	course_id	title
45565	Katz	CE-134	Design engineering

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

☐ Print ☐ Copy to clipboard ☐ Export ☐ Display chart ☐ Create view

localhost/phpmyadmin/index.php?route=/table/sql&db=university&table=section

Server: localhost:3306 » Database: university » Table: section

Bind parameters

Delimiter: ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks

Hide query box

1 row inserted. (Query took 0.0385 seconds.)

```
INSERT INTO course(course_id, title, dept_name, credits) VALUES ('CS-303','Discrete Mathematics','Comp. Sci.','8');
```

[Edit inline] [Edit] [Create PHP code]

1 row inserted. (Query took 0.0024 seconds.)

```
INSERT INTO course(course_id, title, dept_name, credits) VALUES ('CS-333','Database Management Systems','Comp. Sci.','6');
```

[Edit inline] [Edit] [Create PHP code]

1 row inserted. (Query took 0.0024 seconds.)

```
-- Now inserting the required entry into the prereq table INSERT INTO prereq(course_id, prereq_id) VALUES ('CS-333','CS-303');
```

[Edit inline] [Edit] [Create PHP code]

localhost/phpmyadmin/index.php?route=/table/sql&db=university&table=section

Server: localhost:3306 » Database: university » Table: instructor

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0115 seconds.)

```
WITH updated_salaries(Name, Updated_Salary) AS (SELECT inst.name, inst.salary as New_Salary FROM instructor as inst,department WHERE inst.dept_name = department.dept_name AND department.budget > 90000) -- Updating Instructor Table as per requirements UPDATE instructor SET salary = salary * 1.1 WHERE instructor.name IN (SELECT Name FROM updated_salaries);
```

[Edit inline] [Edit] [Create PHP code]

Showing rows 0 - 4 (5 total, Query took 0.0002 seconds.)

```
SELECT instructor.ID,instructor.name,instructor.dept_name,instructor.salary FROM instructor,department WHERE instructor.dept_name = department.dept_name AND department.budget > 90000;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	ID	name	dept_name	salary
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	10101	Srinivasan	Comp. Sci.	71500.00
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	45565	Katz	Comp. Sci.	82500.00
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	83821	Brandt	Comp. Sci.	101200.00
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	12121	Wu	Finance	99000.00
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	76543	Singh	Finance	88000.00

localhost/phpmyadmin/index.php?route=/table/sql&db=university&table=section

Server: localhost:3306 » Database: university » Table: section

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
WITH selected_courses(Course_ID,Title,num_students) AS (SELECT course.course_id,course.title,count(student.ID) FROM
course,student,section,takes WHERE course.course_id = section.course_id AND section.semester = 'Fall' AND section.year = '2007' AND
section.sec_id = takes.sec_id AND student.ID = takes.ID AND takes.course_id = course.course_id GROUP BY course.course_id) -- Displaying all
such courses which have 15+ students undertaking it in the year 2007 SELECT Course_ID,Title,num_students FROM selected_courses WHERE
num_students > 15 ORDER BY Course_ID ASC;
```

[Edit inline] [Edit] [Create PHP code]

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