



Things we will complete today

1. Database Software Installation

2. Loading a Sample database

3. Run basic SQL query on loaded database

4. Learn about some additional tools































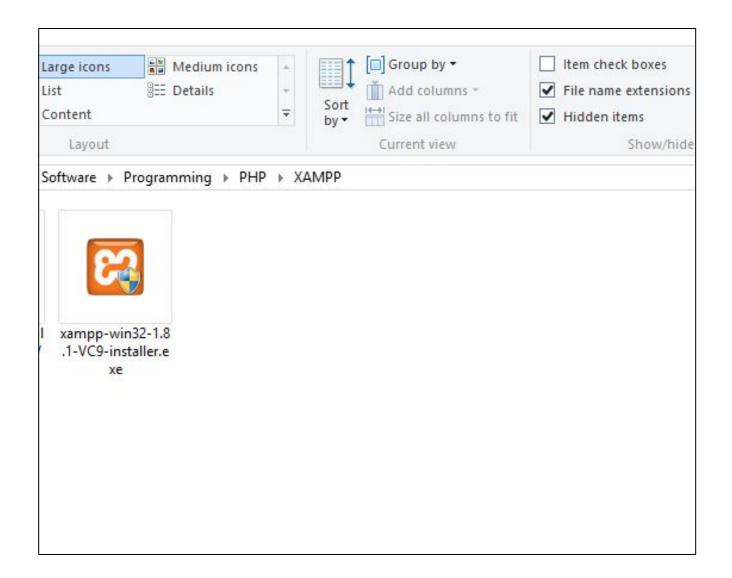


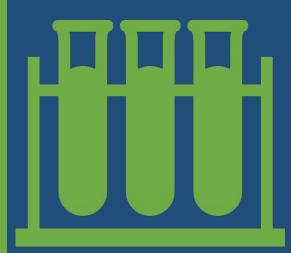


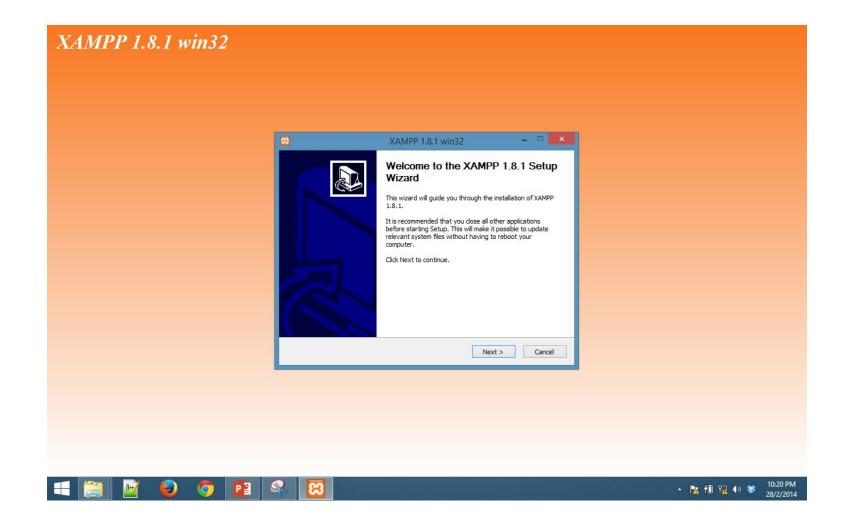


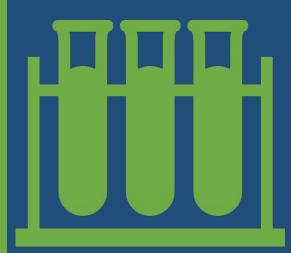


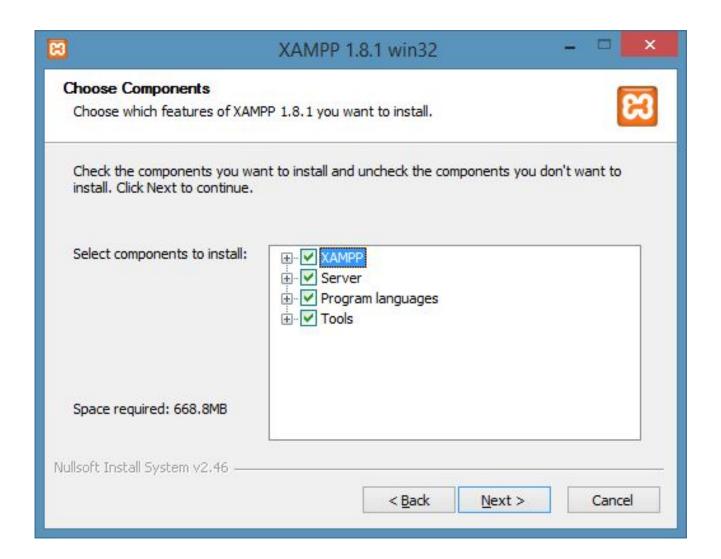


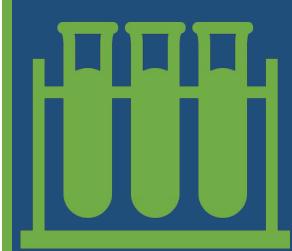


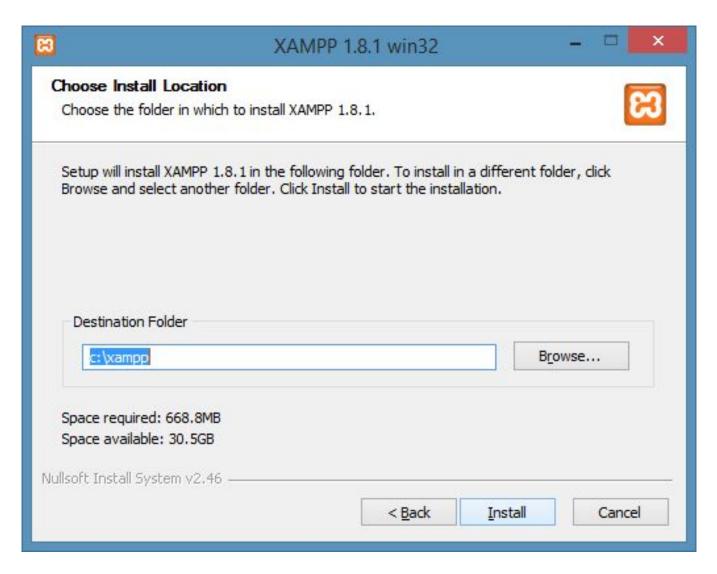


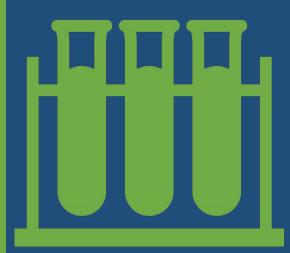


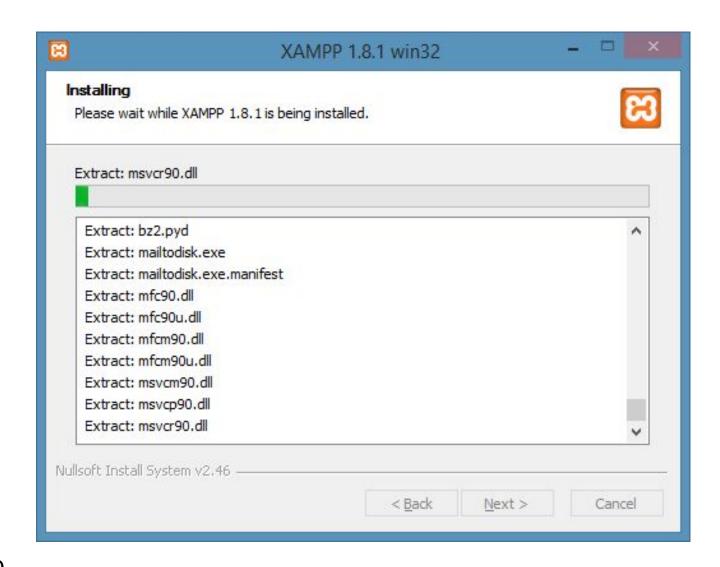


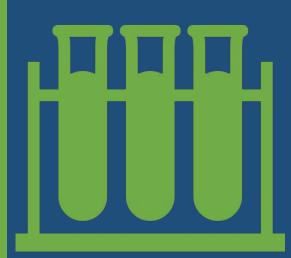


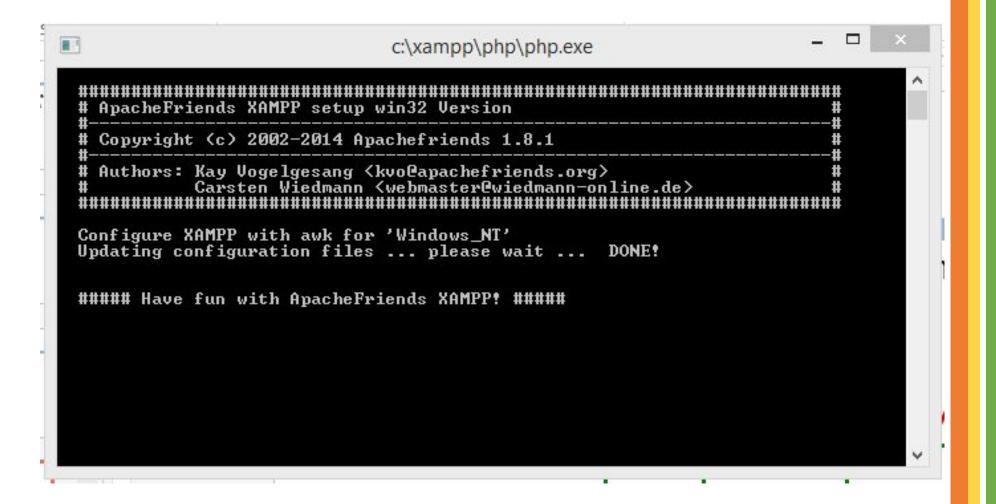


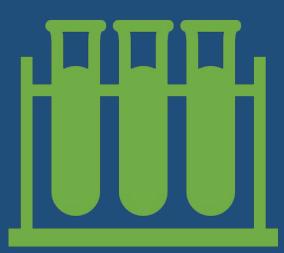




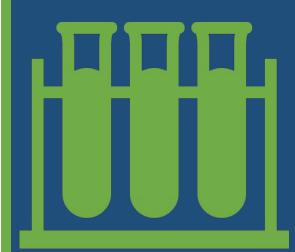


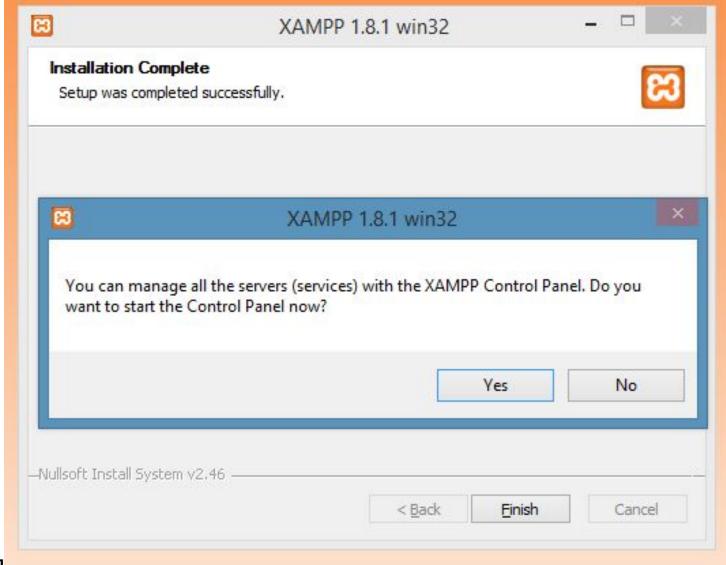


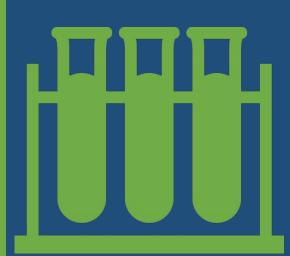


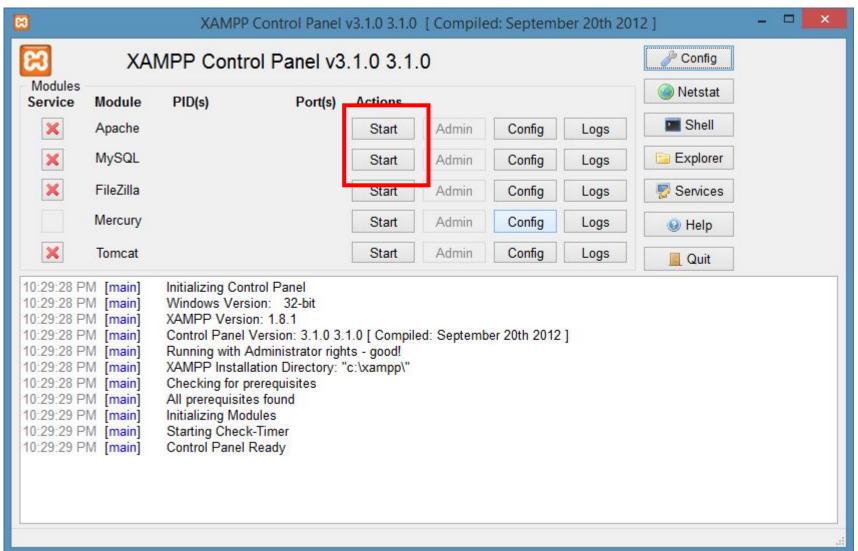




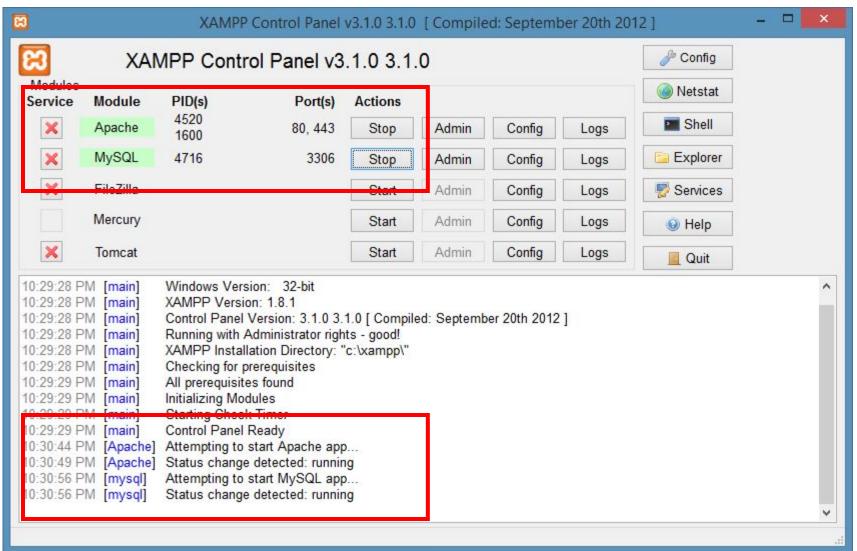


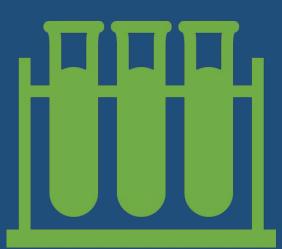


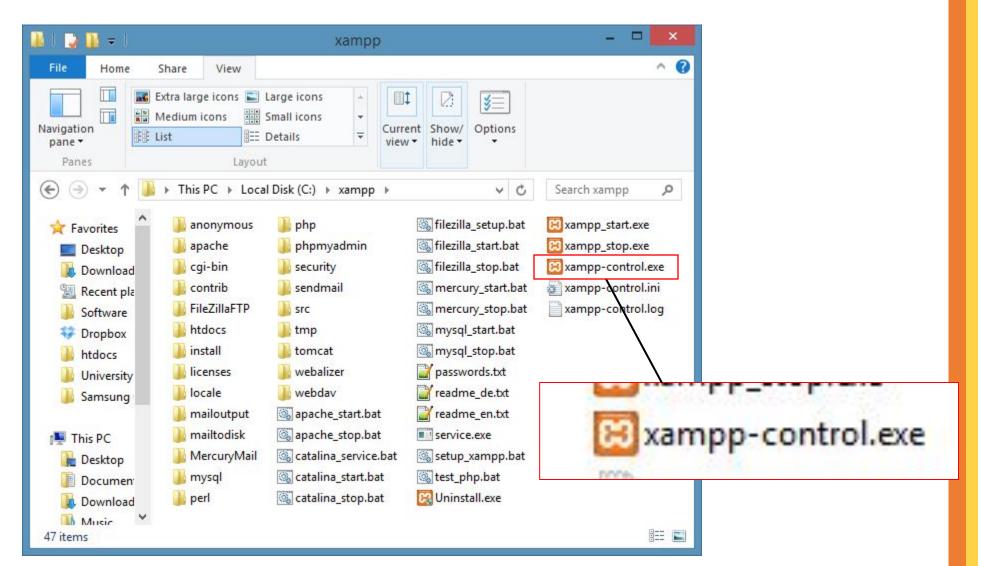


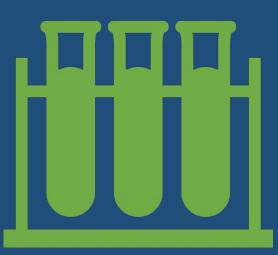


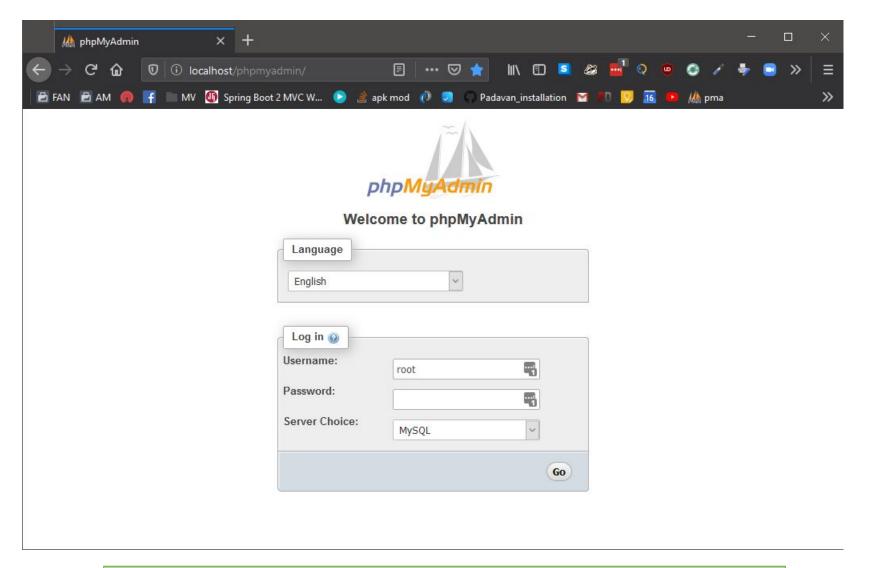


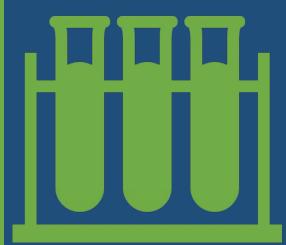


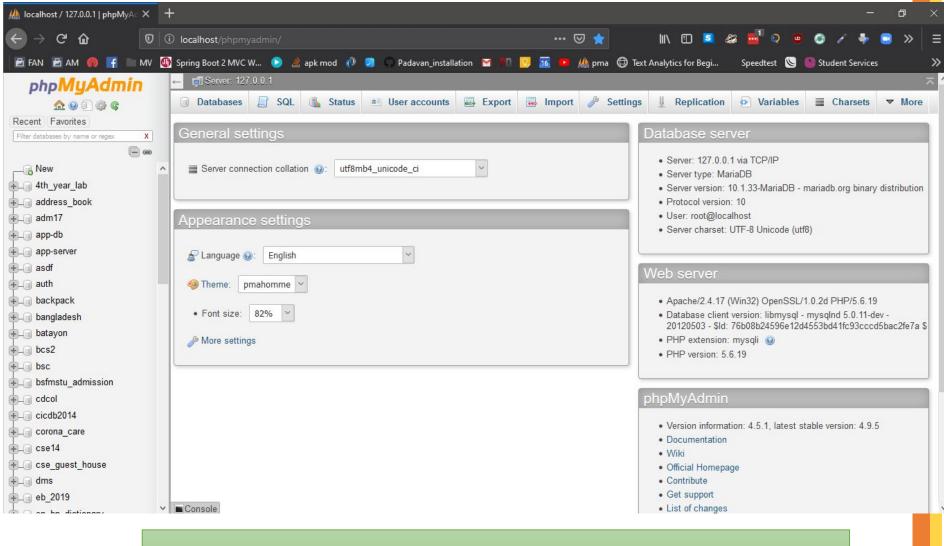






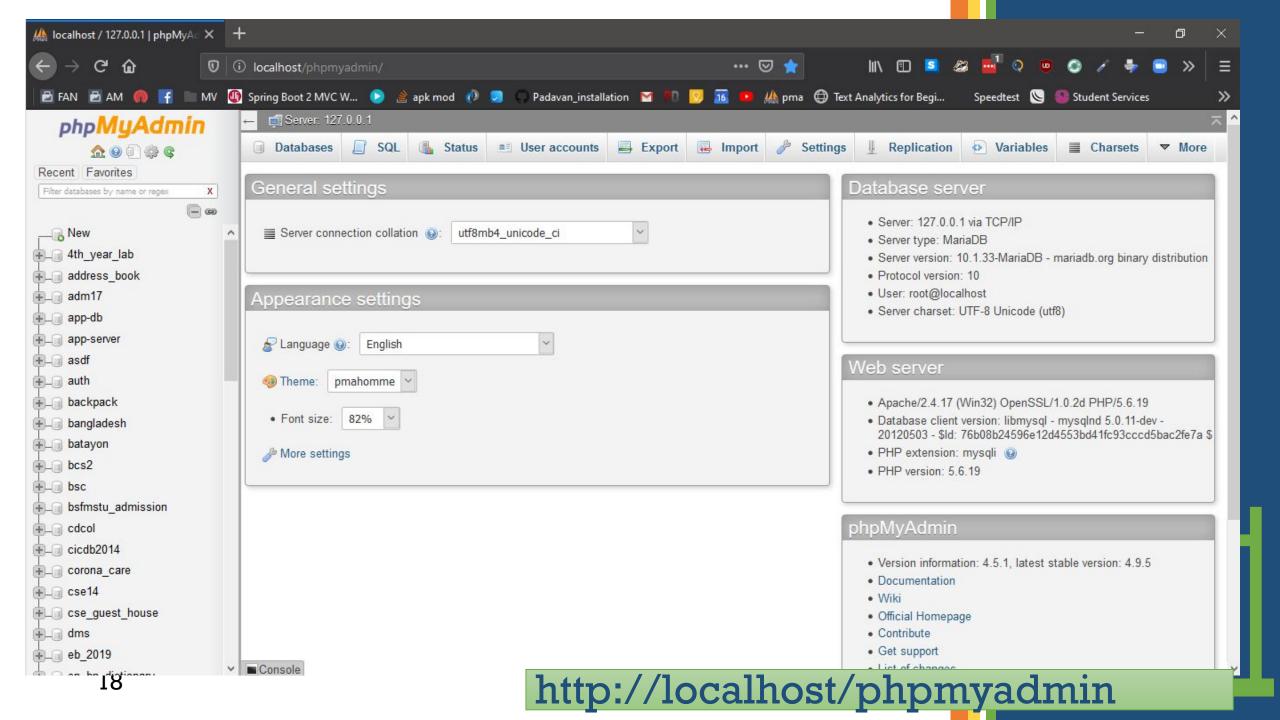


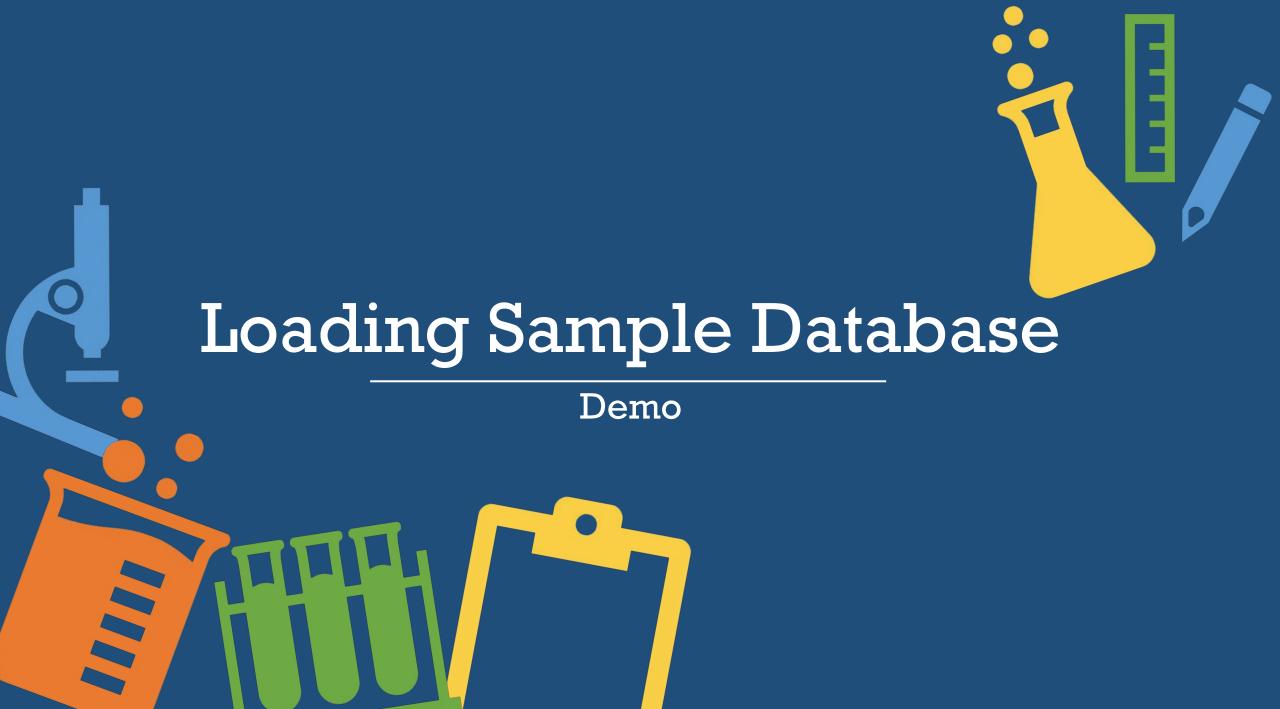




http://localhost/phpmyadmin







Loading Sample Database

Table: Instructor

₹ ID	name	💡 dept_name	salary
10101	Srinivasan	Comp. Sci.	65,000.00
12121	Wu	Finance	90,000.00
15151	Mozart	Music	40,000.00
22222	Einstein	Physics	95,000.00
32343	El Said	History	60,000.00
33456	Gold	Physics	(NULL)
45565	Katz	Comp. Sci.	75,000.00
58583	Califieri	History	62,000.00
76543	Singh	Finance	80,000.00
76766	Crick	Biology	72,000.00
83821	Brandt	Comp. Sci.	92,000.00
98345	Kim	Elec. Eng.	80,000.00

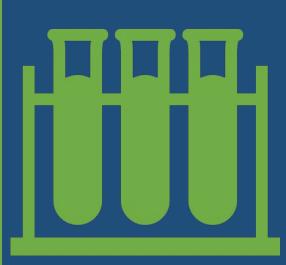
Table: Course

💡 course_id	title	💡 dept_name	credits
BIO-101	Intro. to Biology	Biology	4
BIO-301	Genetics	Biology	4
BIO-399	Computational Biology	Biology	3
CS-101	Intro. to Computer Science	Comp. Sci.	4
CS-190	Game Design	Comp. Sci.	4
CS-315	Robotics	Comp. Sci.	3
CS-319	Image Processing	Comp. Sci.	3
CS-347	Database System Concepts	Comp. Sci.	3
EE-181	Intro. to Digital Systems	Elec. Eng.	3
FIN-201	Investment Banking	Finance	3
HIS-351	World History	History	3
MU-199	Music Video Production	Music	3
PHY-101	Physical Principles	Physics	4



SQL

- Structures Query Language
- developed at IBM by Donald D. Chamberlin and Raymond F. Boyce for their database software "System R" in 1970
- Oracle made it popular.
- By 1986, ANSI and ISO officially adopted the SQL and standard Language for RDBMS.



SQL





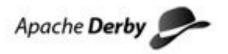
































Basic SQL Query

For getting all data from a specific table

SELECT * FROM <table_name>



SELECT * FROM instructor

ID	name	dept_name	salary
10101	Srinivasan	Comp. Sci.	65000.00
12121	Wu	Finance	90000.00
15151	Mozart	Music	40000.00
22222	Einstein	Physics	95000.00
32343	El Said	History	60000.00
33456	Gold	Physics	87000.00
45565	Katz	Comp. Sci.	75000.00
58583	Califieri	History	62000.00
76543	Singh	Finance	80000.00
76766	Crick	Biology	72000.00
83821	Brandt	Comp. Sci.	92000.00
98345	Kim	Elec. Eng.	80000.00

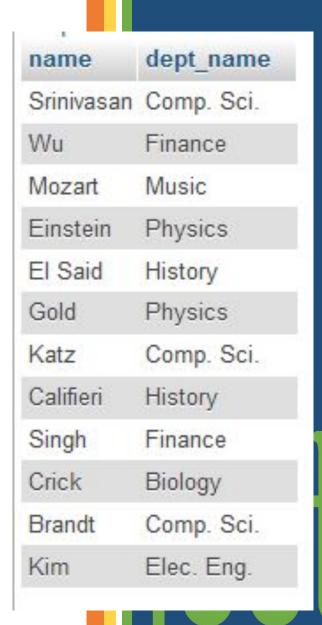
Basic SQL Query

Showing only selected fields

```
SELECT
field1,fiel2,...fieldn
FROM
<table_name>
```



SELECT name, dept_name FROM instructor



Basic SQL Query

Filtering data based on condition

```
SELECT
field1,fiel2,...fieldn
FROM
<table_name>
WHERE
<condition>
```



SELECT * FROM instructor WHERE dept_name='Comp. Sci.'

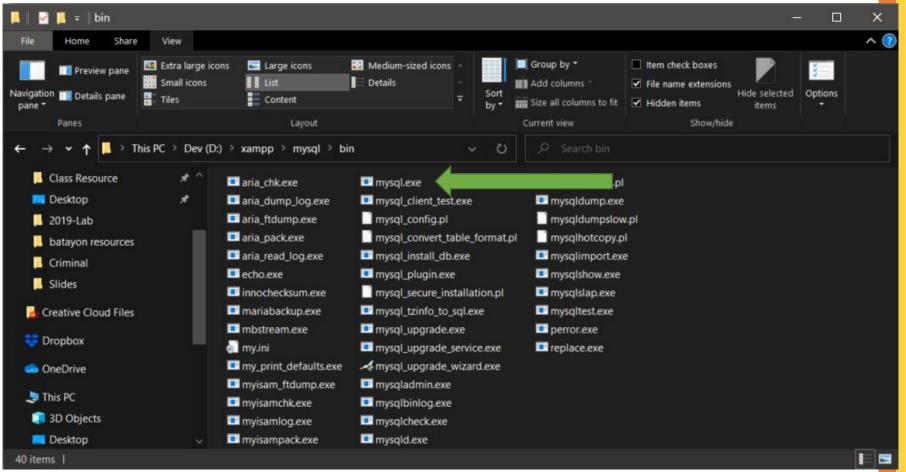
	ID	name	dept_name	salary
е	10101	Srinivasan	Comp. Sci.	65000.00
е	45565	Katz	Comp. Sci.	75000.00
е	83821	Brandt	Comp. Sci.	92000.00

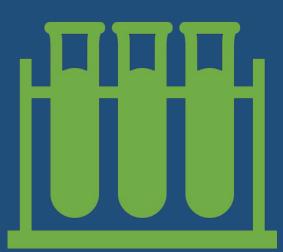




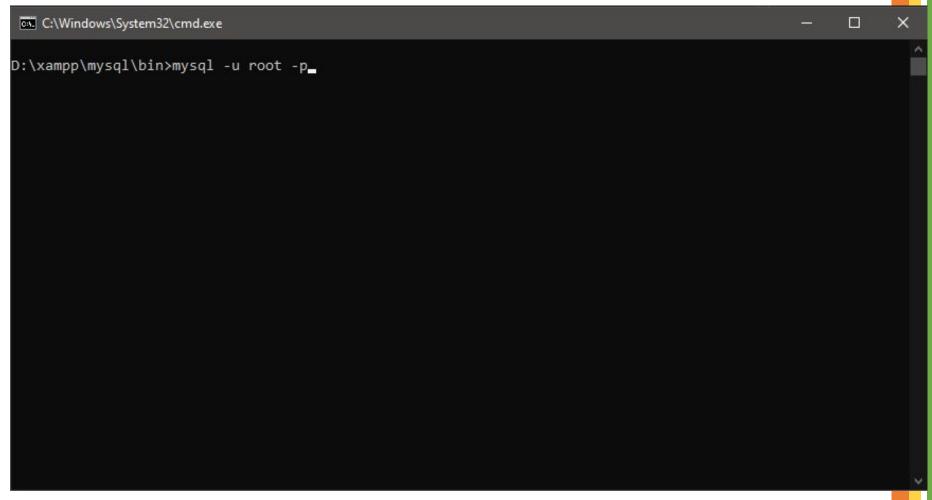
5. Locate mysql within XAMPP

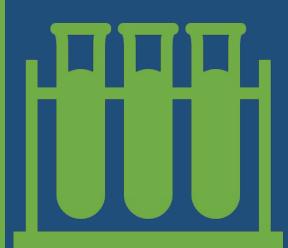
C:\xampp\bin\mysql\bin





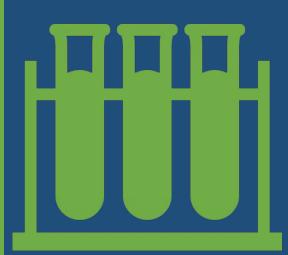
6. Using command prompt run mysql mysql –u root -p





6. Using command prompt run mysql mysql –u root -p

```
C:\Windows\System32\cmd.exe - mysql -u root -p
D:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 225
Server version: 10.1.33-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> _
```



7. Run some query on the db server

Show available databases

show databases;

Open a database

use <database_name>;

Show tables on opened database

show tables;



7. Run some query on the db server

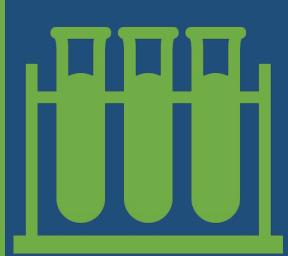
Show schema of a table

desc <table_name>;

☐ short form

Show records from a database

```
select * from <table_name>;
```



7. Run some query on the db server

show databases;

use <database_name>;

show tables;

short form

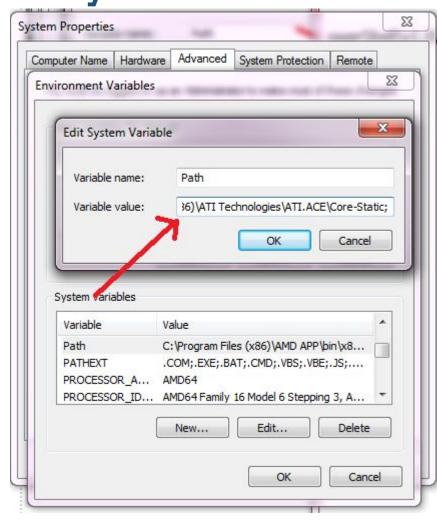
describe <table_name>;

desc <table_name>;

select * from <table_name>;



8. Add mysql to windows env path for easy access



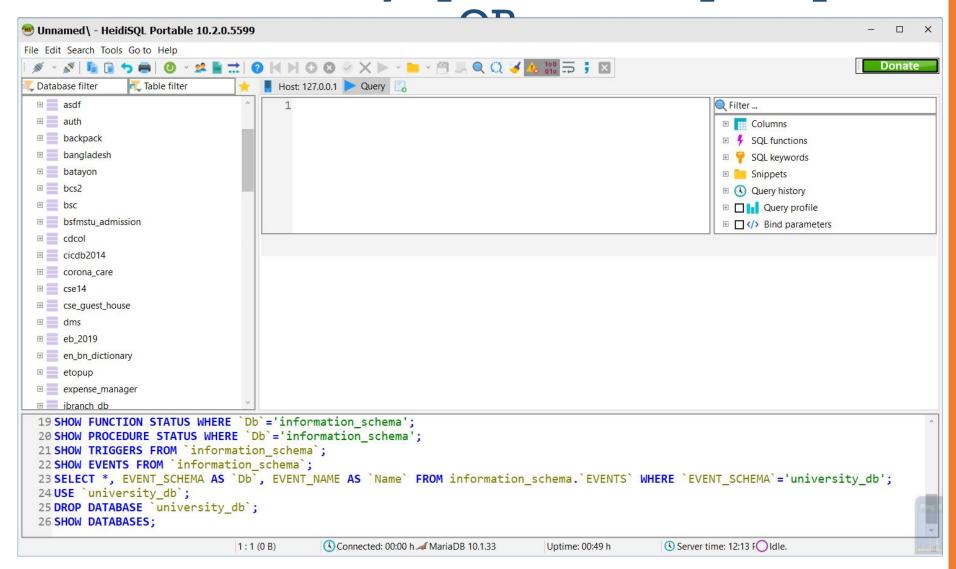
Add your mysql path
c:\wamp\bin\mysql\mysql##\bin;
At the end of the Variable value

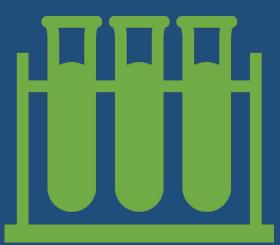
Test if everithing is OK

Open comand prompt anywhere and type
"mysql"

Without the quotation mark

I don't like mysql command prompt











End.

