# **Installing MySQL**

# **Install MySQL**

* 1. Go to <https://dev.mysql.com/downloads/mysql/>
  2. Download and install the Community version of MySQL Server

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# **Install MySQL Python Connector (if not already installed)**

* 1. <https://dev.mysql.com/downloads/connector/python/>
  2. Download and install **Platform Independent** zip archive
  3. Unzip the file to a directory
  4. Go to that directory using cmd
  5. py -3 setup.py install
  6. Test the code by typing import mysql.connector in IDLE

# **Install MySQL Python Connector for PyCharm**

* 1. Go to Settings and install the repo **mysql-connector-python**
  2. Test the code by typing import mysql.connector in PyCharm

# **Change Environment Variables to Include MySQL in cmd**

* 1. Go to Start, type “env”
  2. Open **Edit The System Environment Variables**
  3. Click the **Environment Variables** button
  4. Select the **System variable** named **Path**
  5. Add **C:\Program Files\MySQL\MySQL Server 8.0\bin\**

# **MySQL Commands**

# **Opening Root**

* 1. mysql -u root -p
  2. Enter the password used during installation

# **Creating a New Database**

create database lettersearchlogDB;

# **Creating a User for the Database**

create user 'lettersearch'@'localhost' identified by 'lettersearchpassword';

grant all privileges on lettersearchlogDB.\* to 'lettersearch'@'localhost';

# **Logging Into the Database from cmd**

* 1. mysql -u lettersearch -p lettersearchlogDB
  2. Enter the password (lettersearchpassword)

# **Creating a New Table**

create table log (id int auto\_increment primary key,ts timestamp default current\_timestamp,phrase varchar(128) not null,letters varchar(32) not null,ip varchar(16) not null,browser\_string varchar(256) not null,results varchar(64) not null );

# **Describe the Table**

* 1. Describe log;

# **Insert a New Value**

Insert into log

(phrase, letters, ip, browser\_string, results)

values

("Choot Pakoda", "choot", "127.0.0.1", "Loda Browser", "{'c','h','o','t'}");

# **Show All the Contents of the Table**

Select \* from log;

# **Show the Number of Rows of Data**

Select count(\*) from log;

# **Show the Most Common List of ‘letters’**

select count(letters) as 'count', letters

from log

group by letters

order by count desc

limit 1;

# **Show the Top 5 Common List of ‘letters’**

select count(letters) as 'count', letters

from log

group by letters

order by count desc

limit 5;

# **Show the Unique ‘ip’s**

select distinct ip from log;

# **Show All Databases**

show databases;

# **Deleting a Database**

drop database lettersearchlogDB **!!careful madarchod!!**

# **Show All Users**

select user, host FROM mysql.user;

# **Deleting a User**

drop user lettersearch@localhost;