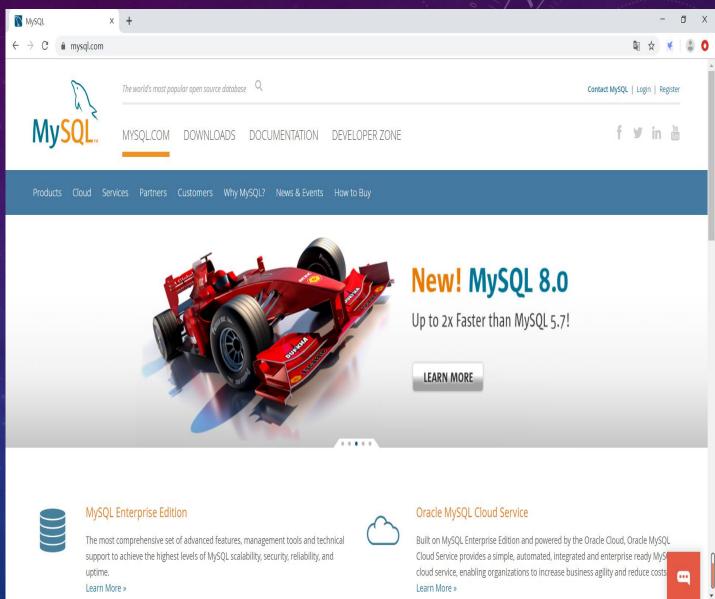


OBJECTIVES

- DBMS Installation: Server (MySQL), Client (MysqlWorkbench)
- DBMS Login using super user
- Install Git and Use Git
- Install Python3.6 and Pycharm
- Connect MySQL using python

Install mysql db server and client

- mysql
 - https://www.mysql.com/
 - MySQL 8.0
 - MySQL Community Edition (GPL)



- mysql
 - https://www.mysql.com/
 - MySQL 8.0
 - MySQL Community Edition (GPL)
 - Server & Client & Connectors



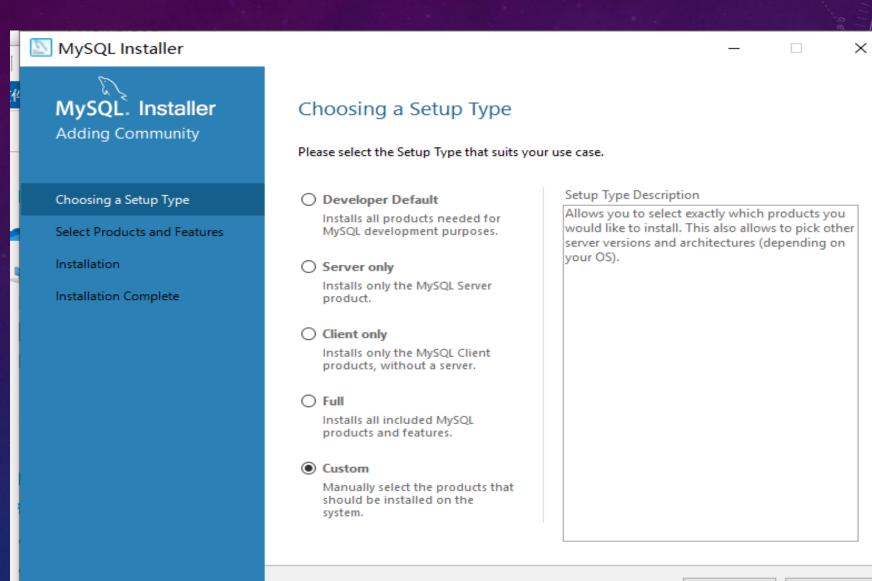
MySQL Community Downloads

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- MySQL Community Server
- MySQL Cluster
- MySQL Router
- MySQL Shell
- MySQL Workbench
- MySQL Installer for Windows
- MySQL for Excel
- MySQL for Visual Studio
- MySQL Notifier

- C API (libmysqlclient)
- Connector/C++
- Connector/J
- Connector/NET
- Connector/Node.js
- Connector/ODBC
- Connector/Python
- MySQL Native Driver for PHP
- MySQL Benchmark Tool
- Time zone description tables
- Download Archives

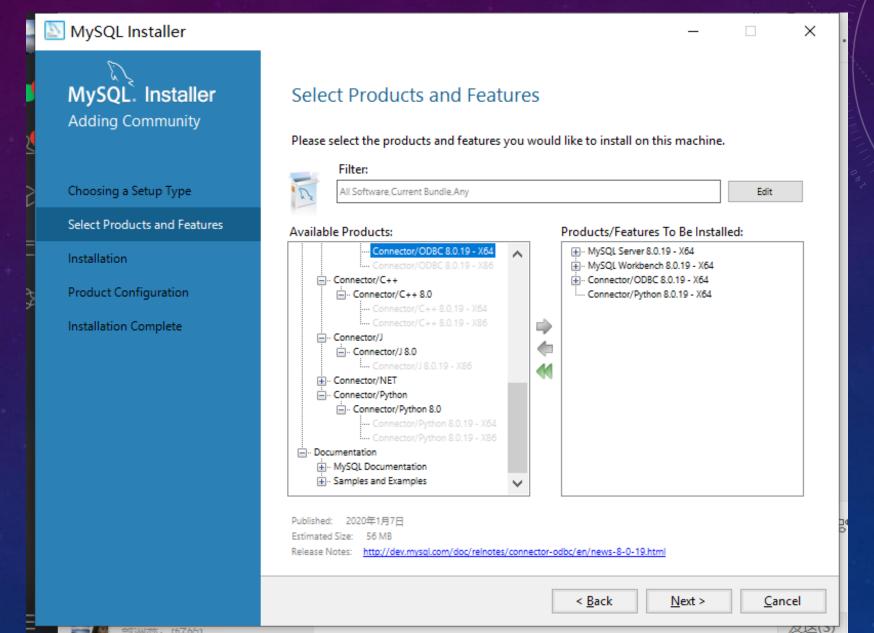
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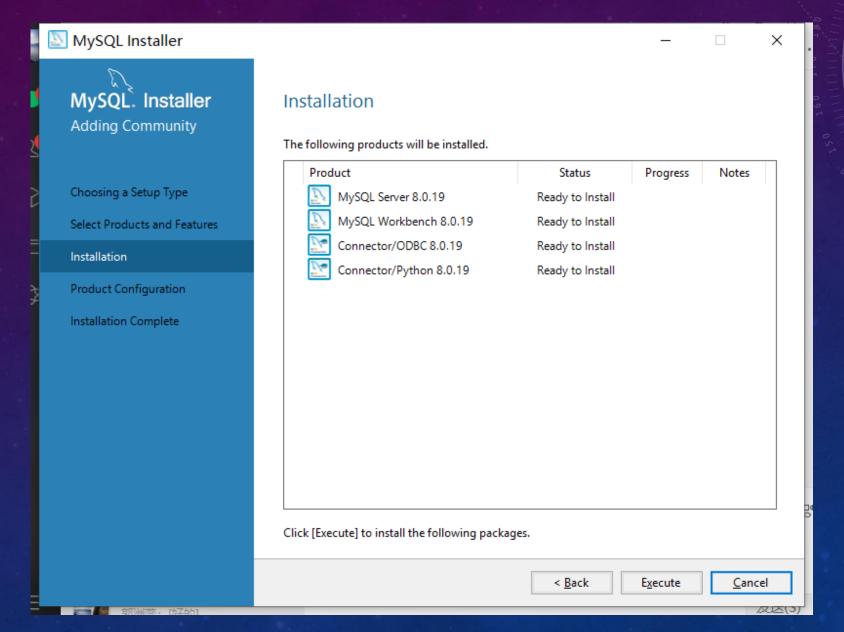
Legal Policies | Your Privacy Rights | Terms of Use | Trademark Policy | Contributor Agreement | Cookie Preferences



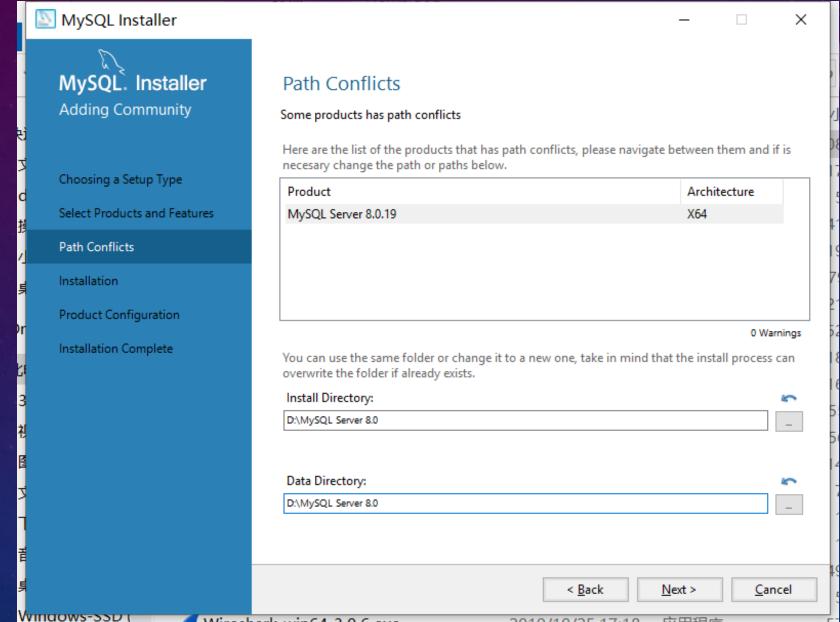
Next >

Cancel 1

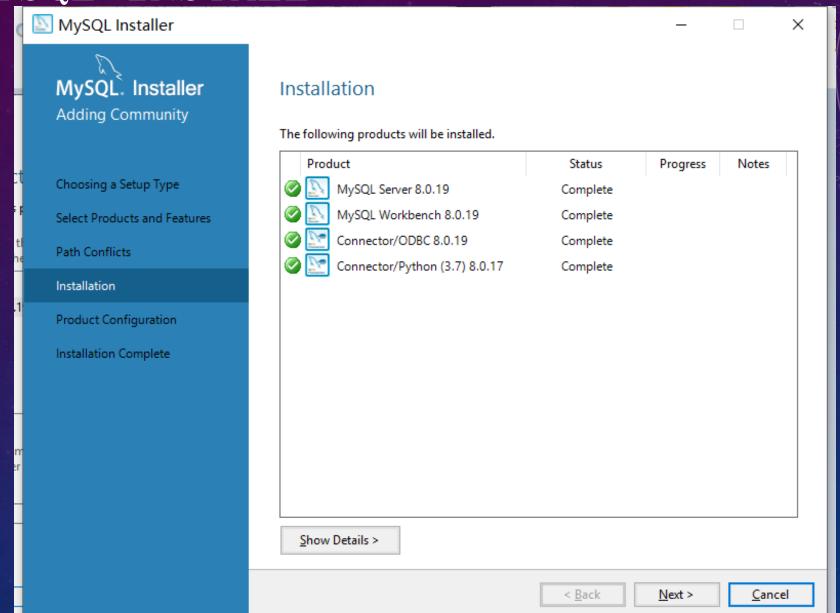




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2010/10/25 17:10





MySQL Server 8.0.19

High Availability

Type and Networking

Authentication Method

Accounts and Roles

Windows Service

Logging Options

Advanced Options

Apply Configuration

Williaows-55D (

High Availability

Standalone MySQL Server / Classic MySQL Replication

Choose this option to run the MySQL instance as a standalone database server with the opportunity to configure classic replication later. With this option, you can provide your own high-availability solution, if required.

○ InnoDB Cluster

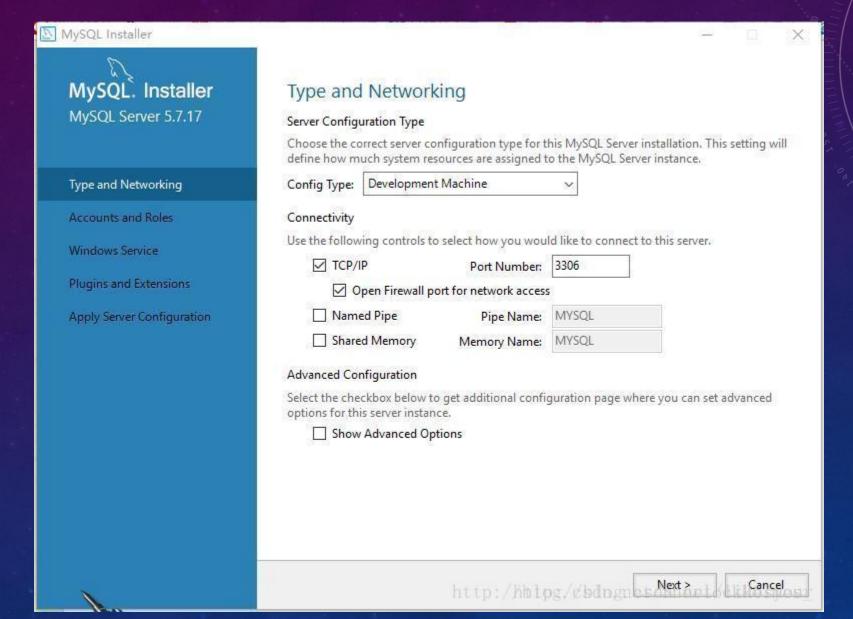
The InnoDB cluster technology provides an out-of-the-box high availability (HA) solution for MySQL using Group Replication.

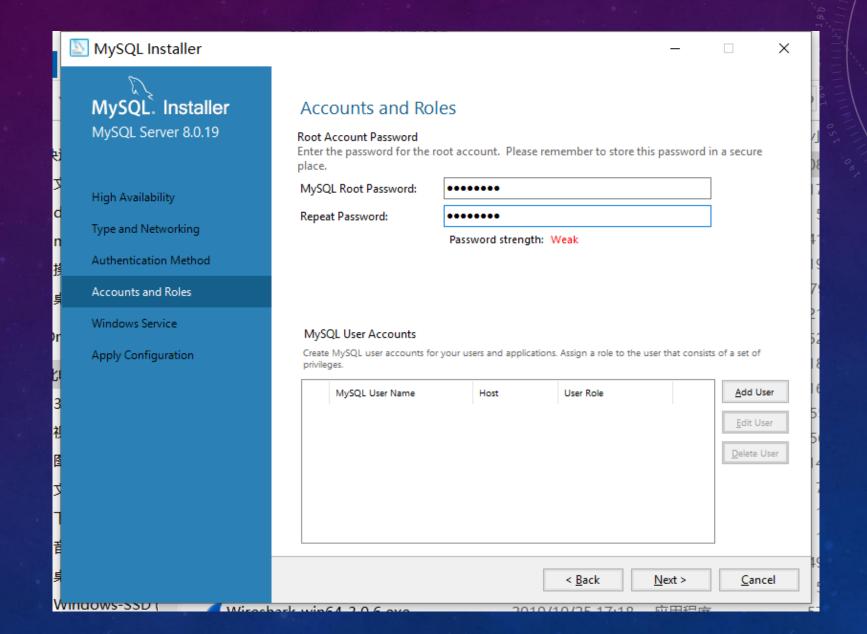


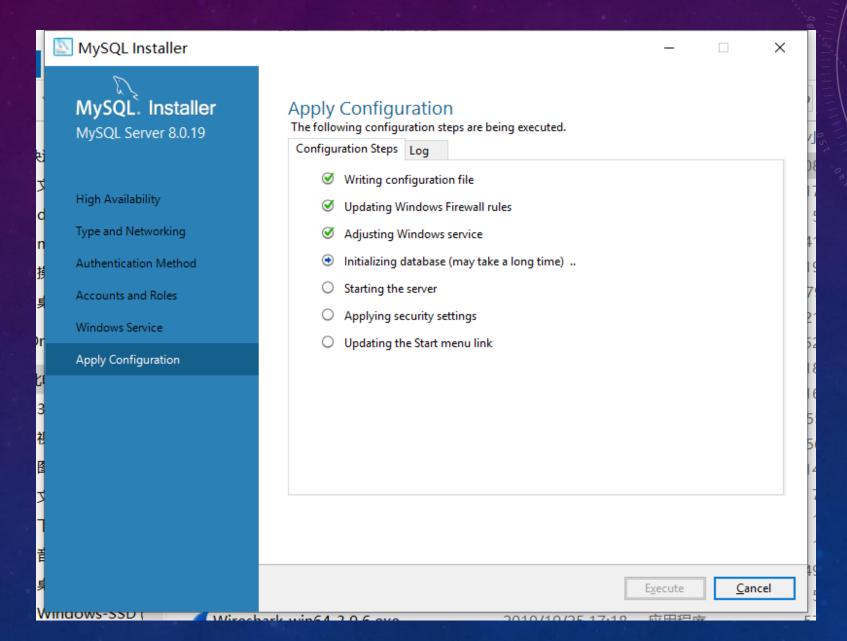
Note: <u>InnoDB cluster</u> requires a minimum of three MySQL server instances to provide a fully automated HA solution. Members of a cluster should be located such that network communication latency between servers is low.

Next >

Cancel







MYSQL: GUI CLIENT APPLICATION

MvSOL Workbench



File Edit View Database Tools Scripting Help









MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you to design, create and browse your database schemas, work with database objects and insert data as well as design and run SQL queries to work with stored data. You can also migrate schemas and data from other database vendors to your MySQL database.

Browse Documentation >

Read the Blog >

Discuss on the Forums >

MySQL Connections ⊕ ⊗

Local instance 3306



localhost:3306

Filter connections

MYSQL: GUI CLIENT APPLICATION

Query Completed

Local instance 3306 💥 File Edit View Query Database Server Tools Scripting Help Administration Schemas Context Help | Snippet Query 1 💥 SCHEMAS 12 ¶ Ø Ø Ø Ø Ø Elimit to 1000 rows ▼ № Ø Ø ¶ □ Q Filter objects Automatic context help select variable , value from sys.sys config; the toolbar to manually **▼** 🗎 sys current caret position or **▼** Tables automatic help. ▼ sys config **▼ S** Columns variable value set time Result Grid [] 🙌 Filter Rows: 🔾 Edit: 🔏 🗒 Export/Import: 🟢 🐻 Wrap Cell Content: 🏗 set by ▶ Indexes variable value Result Grid ▶ ∰ Foreign Keys diagnostics.allow i s tables OFF ▶ 🗑 Triggers diagnostics.include raw OFF ▶ **™** Views ps thread trx info.max length 65535 statement performance analyzer.limit 100 ▶ **®** Functions statement performance analyzer.vi... lestdb2019 Field Types statement truncate len NULL NULL Object Info | Session No object selected sys_config 1 💥 Apply Revert

Download courseware



- git
 - https://git-scm.com
 - Download
 - Install



Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is easy to learn and has a tiny footprint with lightning fast performance. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like cheap local branching, convenient staging areas, and multiple workflows.



Q Search entire site...



About

The advantages of Git compared to other source control systems.



Documentation

Command reference pages, Pro Git book content, videos and other material.



Downloads

GUI clients and binary releases for all major platforms.



Community

Get involved! Bug reporting, mailing list, chat, development and more.



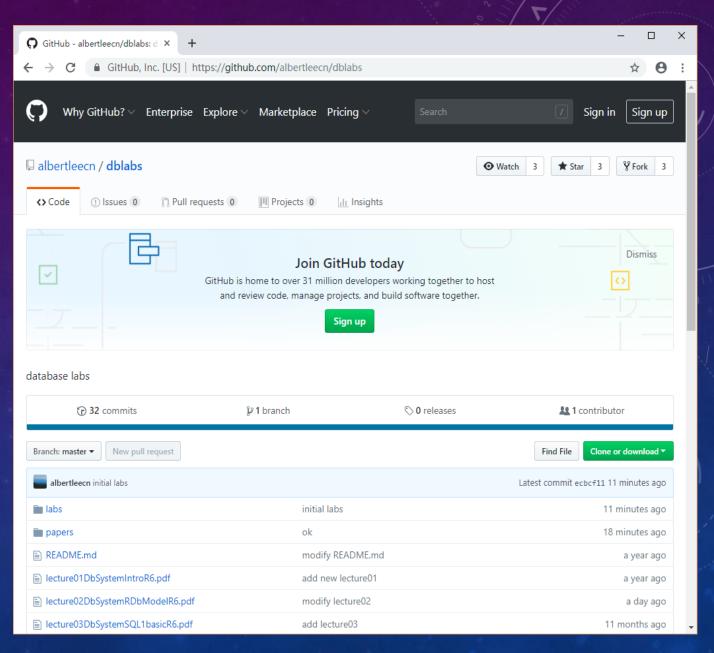
Pro Git by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on Amazon.com.





- material of DB course
 - git clone
 https://github.com/alb
 ertleecn/dblabs
 - git pull

 Get the latest documentation



Install Python3.6 and Pycharm

- python
 - https://www.pytho n.org/downloads/wi ndows/
 - Download
 - Install

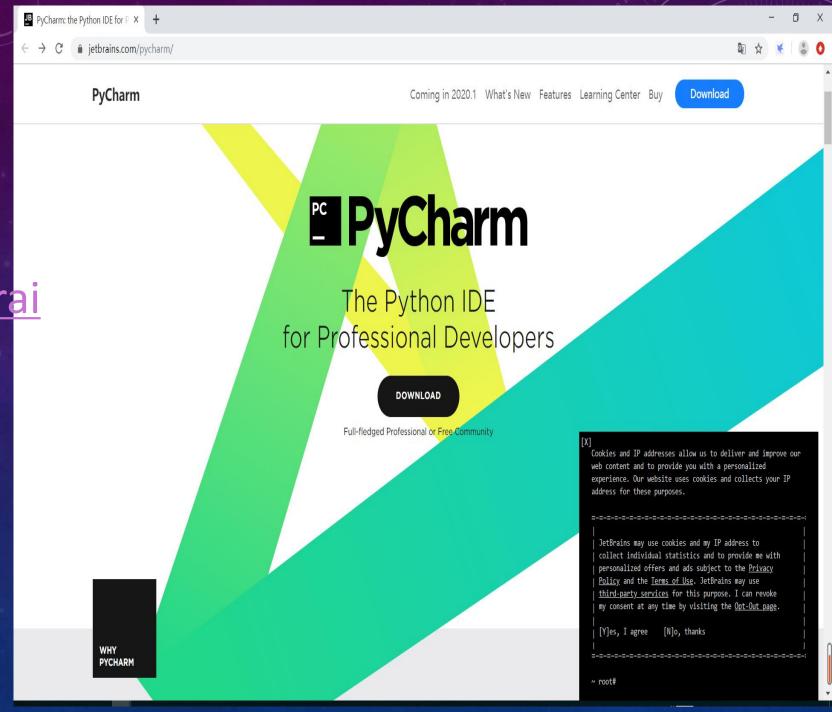


Python 3.6.8 - Dec. 24, 2018

Note that Python 3.6.8 cannot be used on Windows XP or earlier.

- Download Windows help file
- Download Windows x86-64 embeddable zip file
- Download Windows x86-64 executable installer
- Download Windows x86-64 web-based installer
- Download Windows x86 embeddable zip file
- Download Windows x86 executable installer
- Download Windows x86 web-based installer
- Python 3.7.1 Oct. 20, 2018

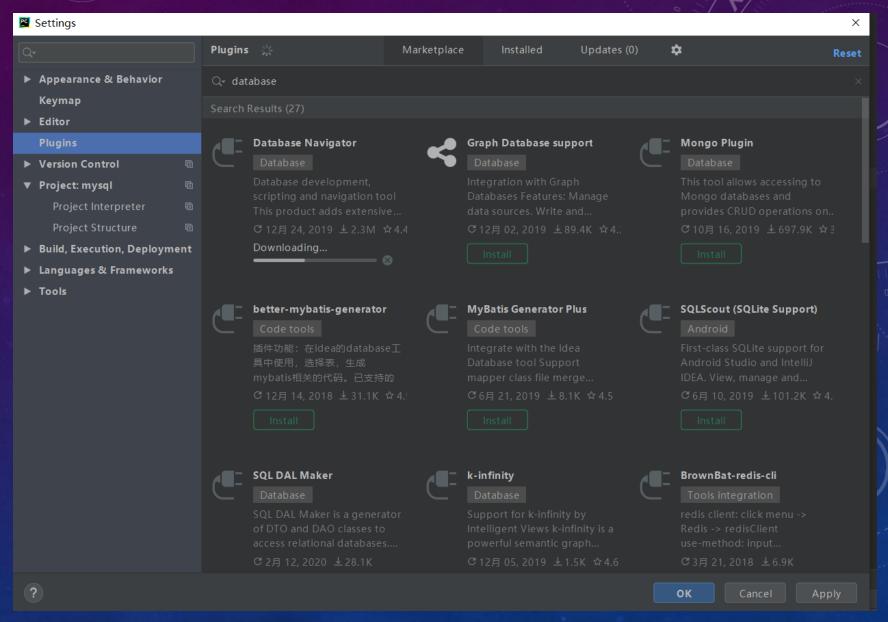
- pycharm
 - https://www.jetbrai ns.com/pycharm/
 - Download
 - Install



Connect MySQL using python

PYCHARM

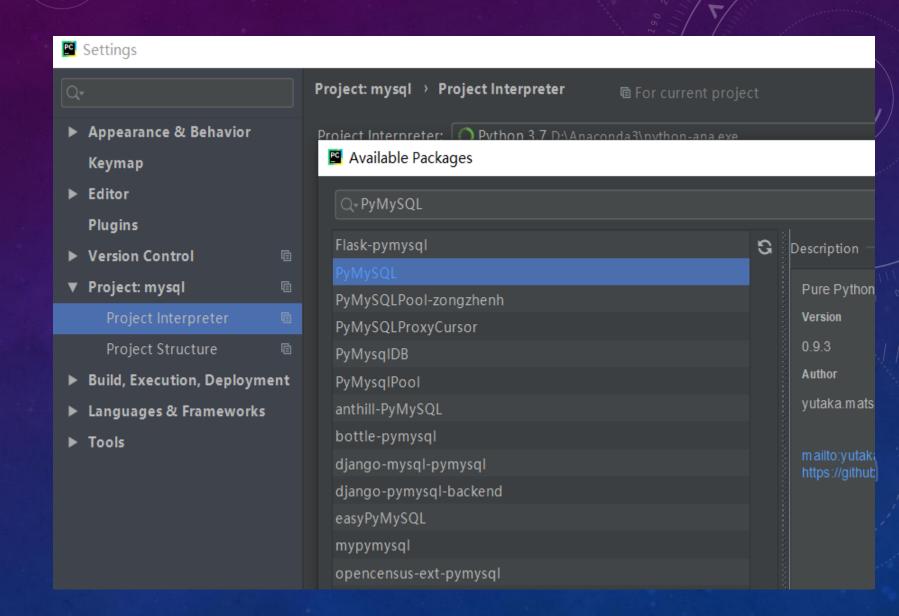
- Add reference
 - PyMySQL
 - Pip install PyMySQL

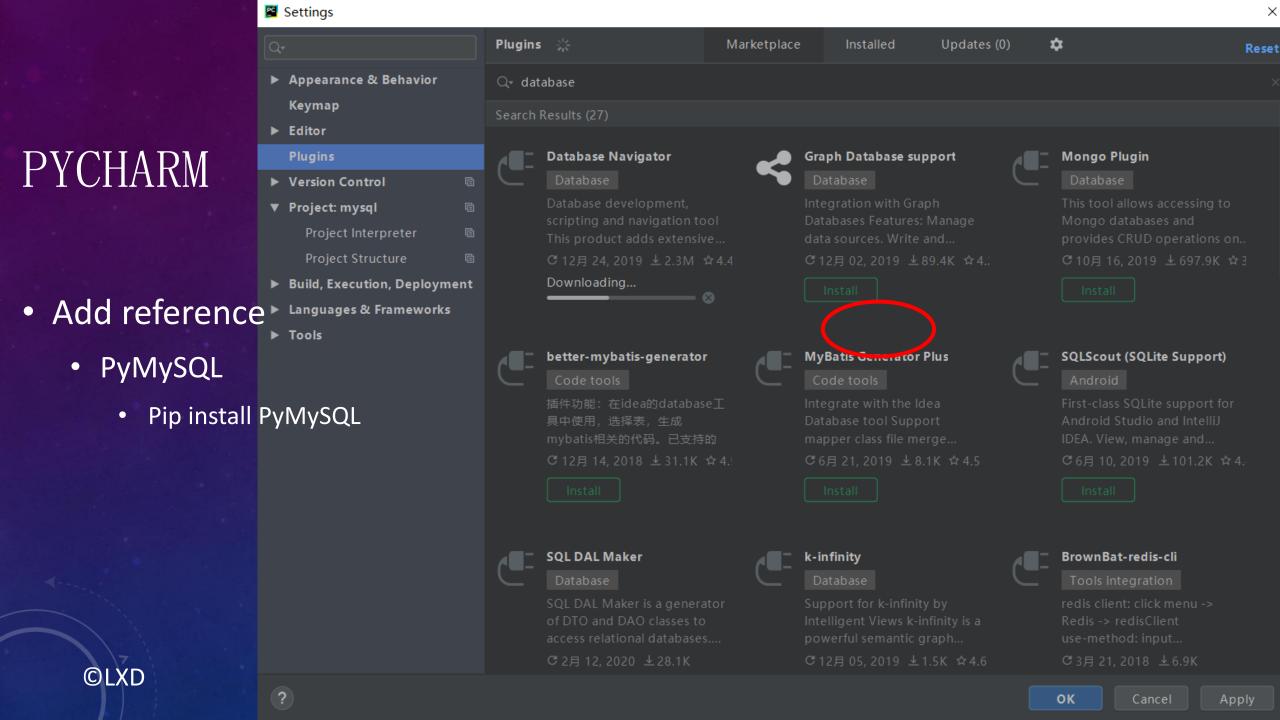




PYCHARM

- Add reference
 - PyMySQL
 - Pip install PyMySQL





CONNECTION

Database version: 8.0.19

Process finished with exit code 0

```
import pymysql
# 打开数据库连接
db = pymysql.connect("localhost", "root", "password", "sys")
# 使用 cursor() 方法创建一个游标对象 cursor
cursor = db.cursor()
# 使用 execute() 方法执行 SQL 查询
cursor.execute("SELECT VERSION()")
# 使用 fetchone() 方法获取单条数据.
data = cursor.fetchone()
print("Database version : %s " % data)
# 关闭数据库连接
db. close ()
```

