DATABASE SYSTEM LABS – PREPARE

李旭东

LEEXUDONG@NANKAI.EDU.CN

NANKAI UNIVERSITY

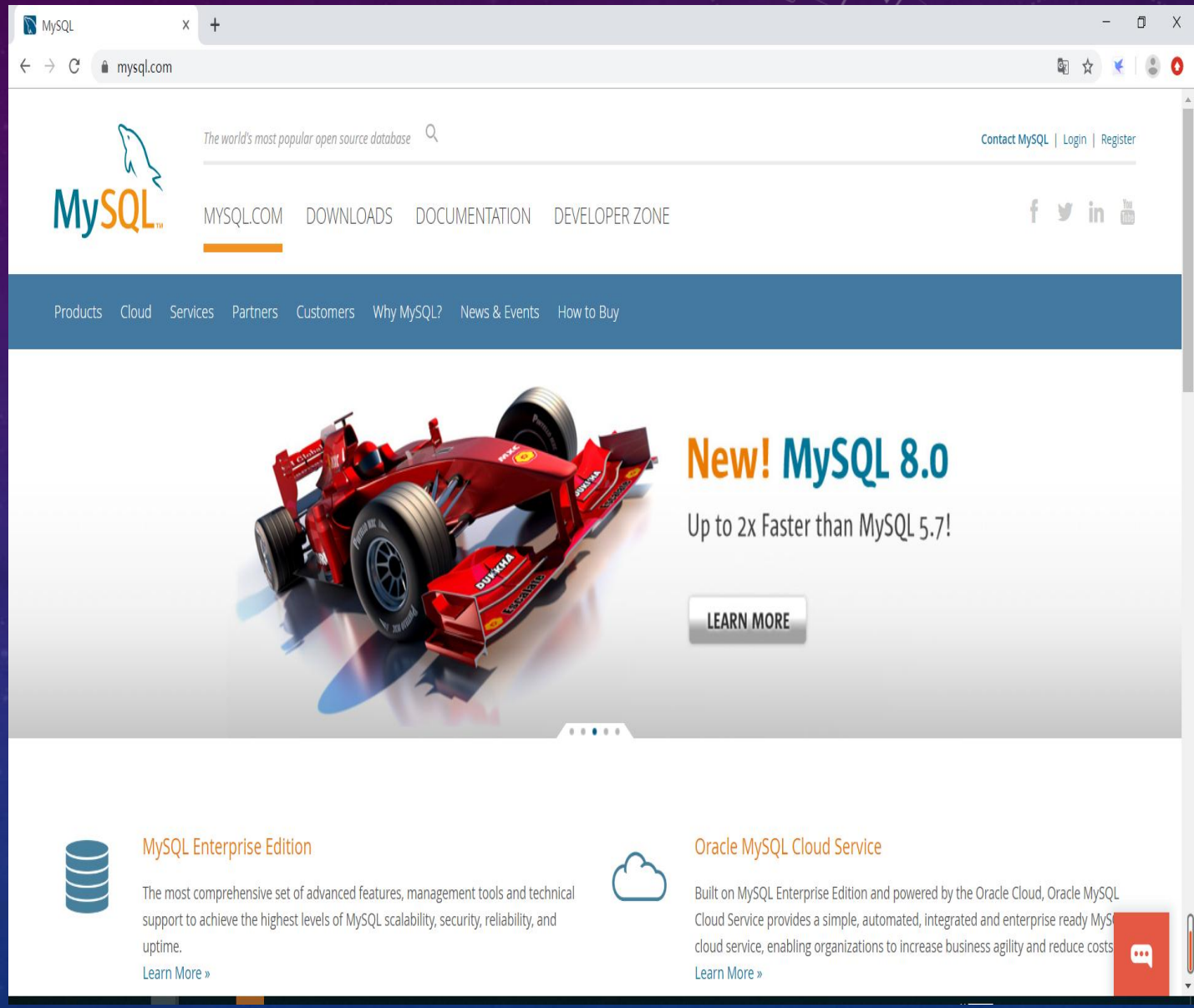
OBJECTIVES

- 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

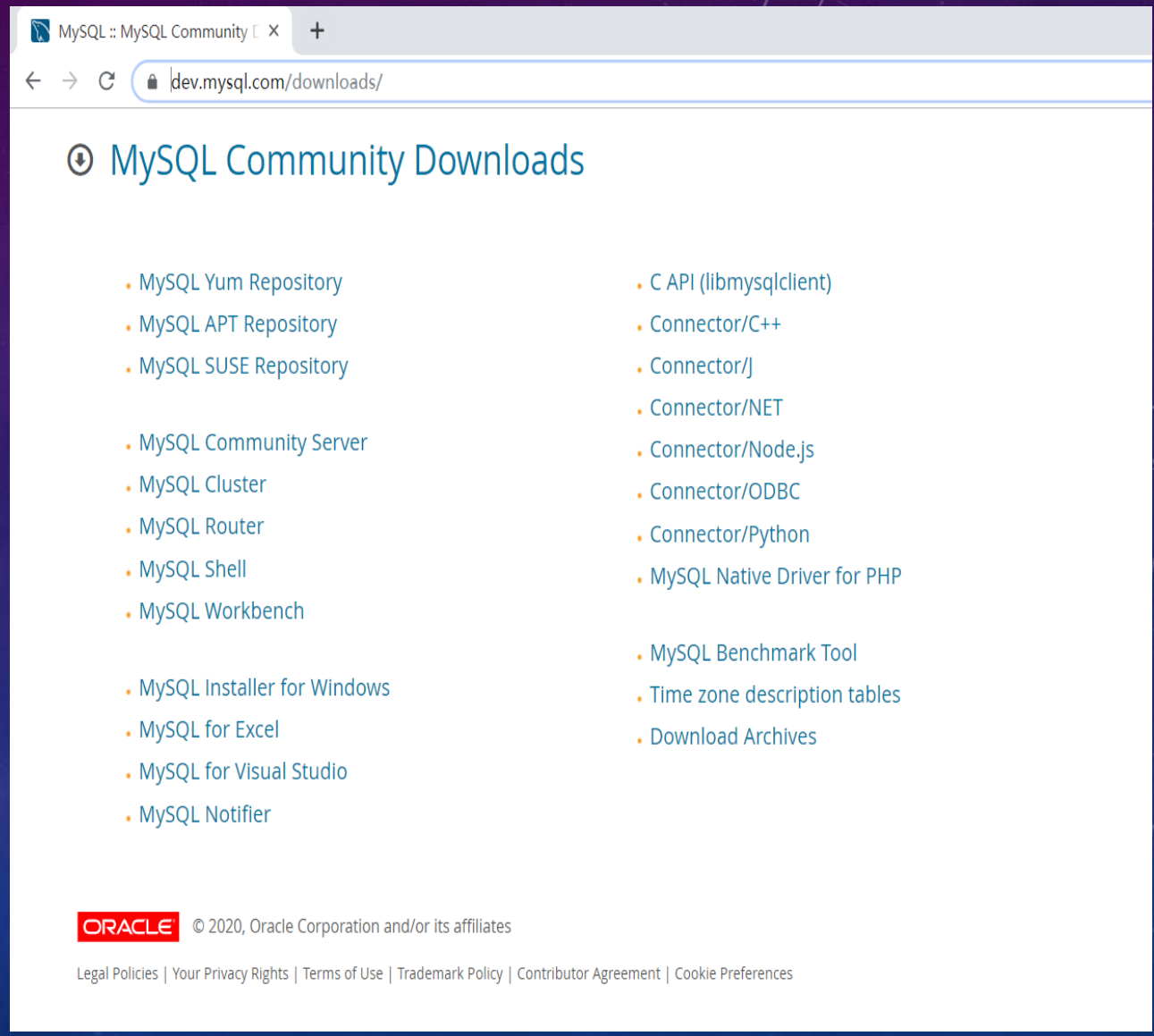
LABS PREPARE

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

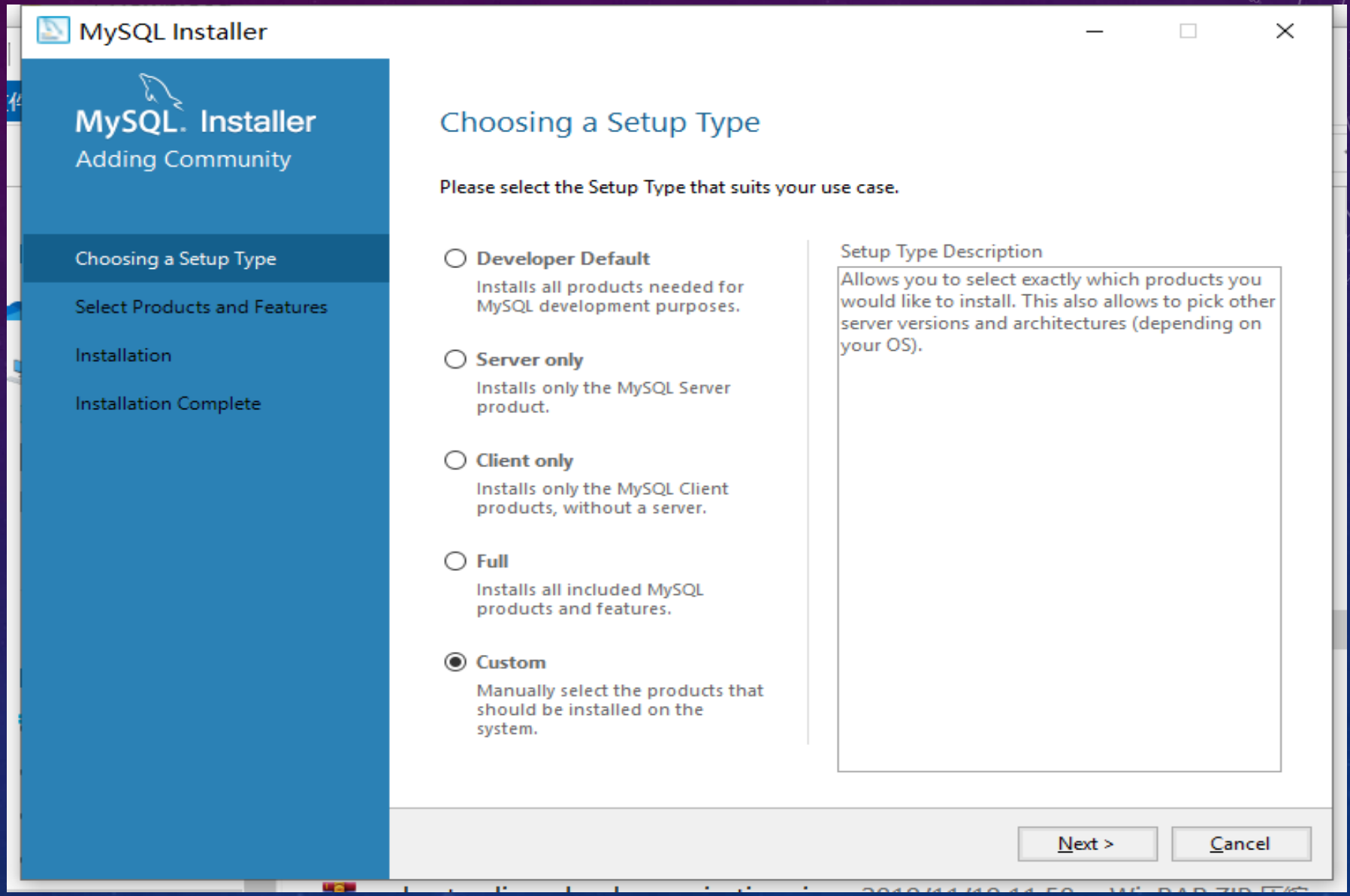


LABS PREPARE

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



MYSQL INSTALL



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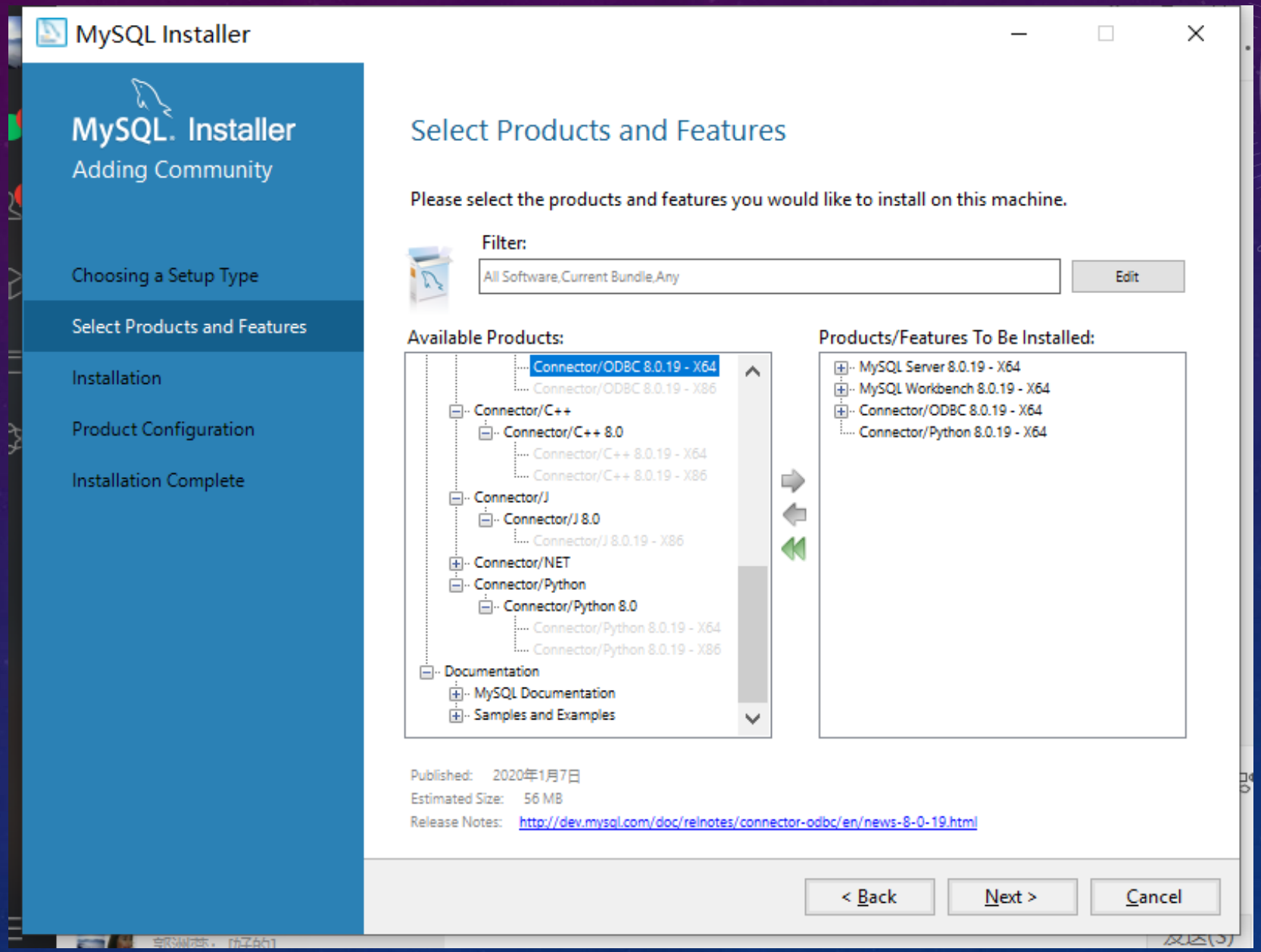

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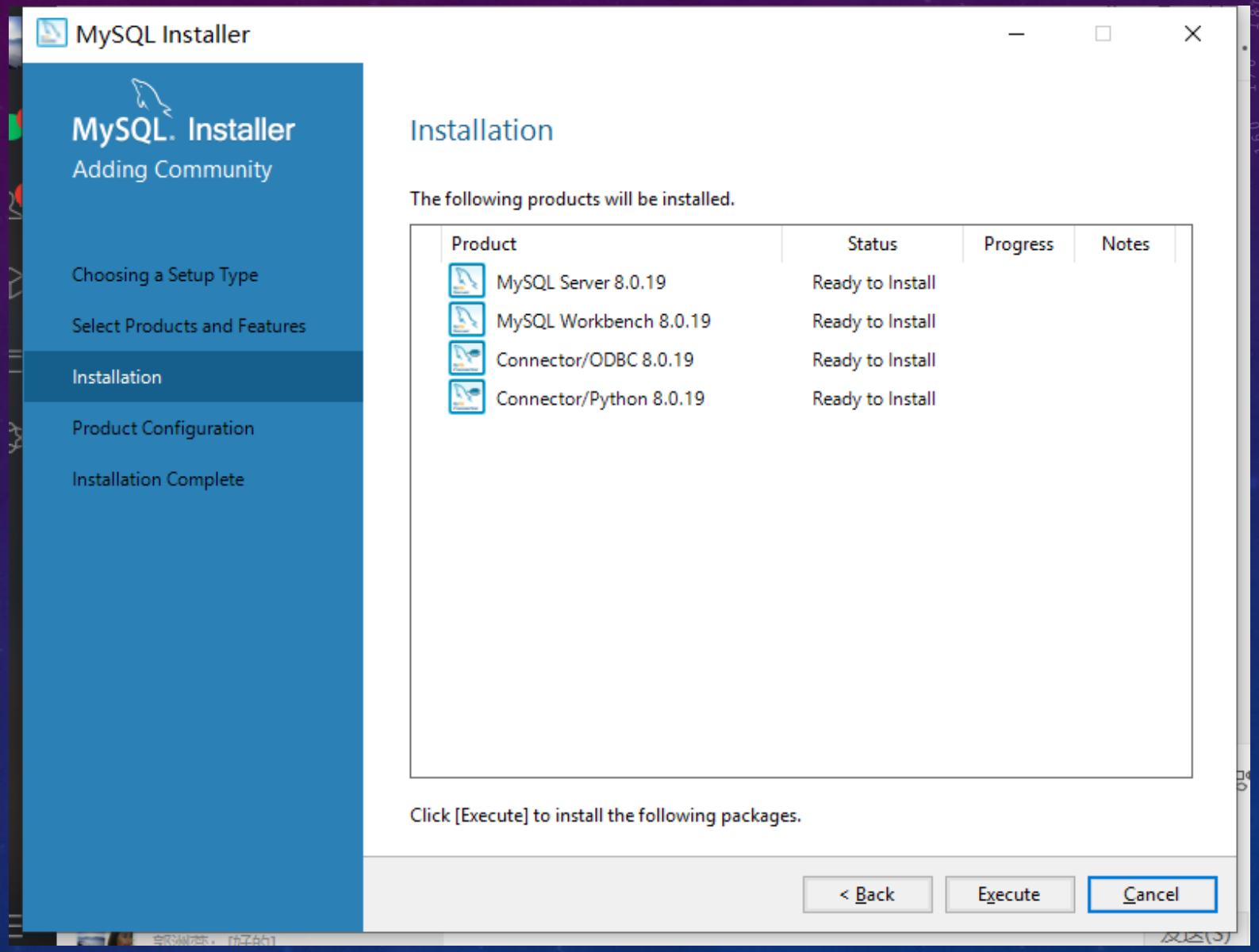

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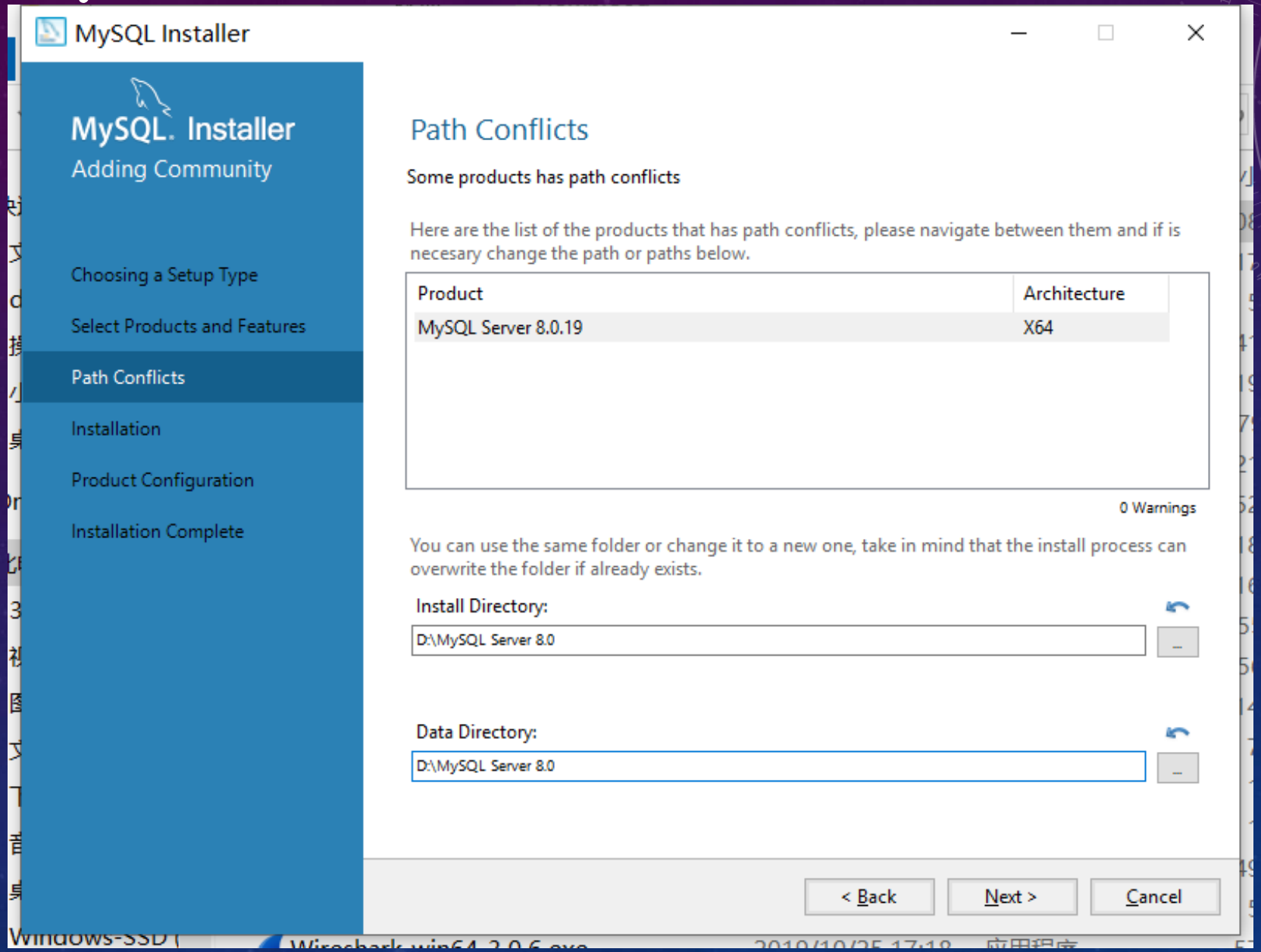

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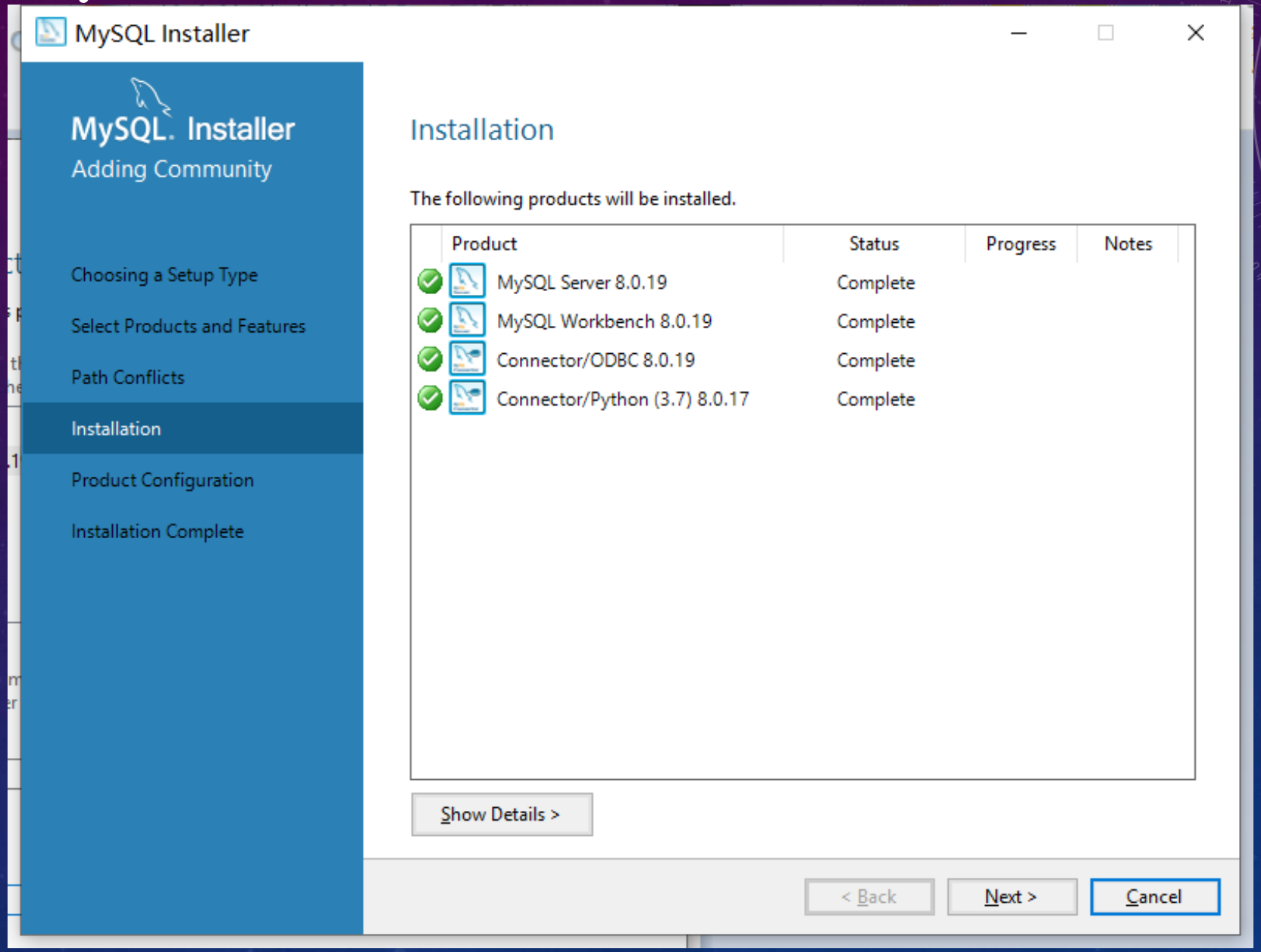

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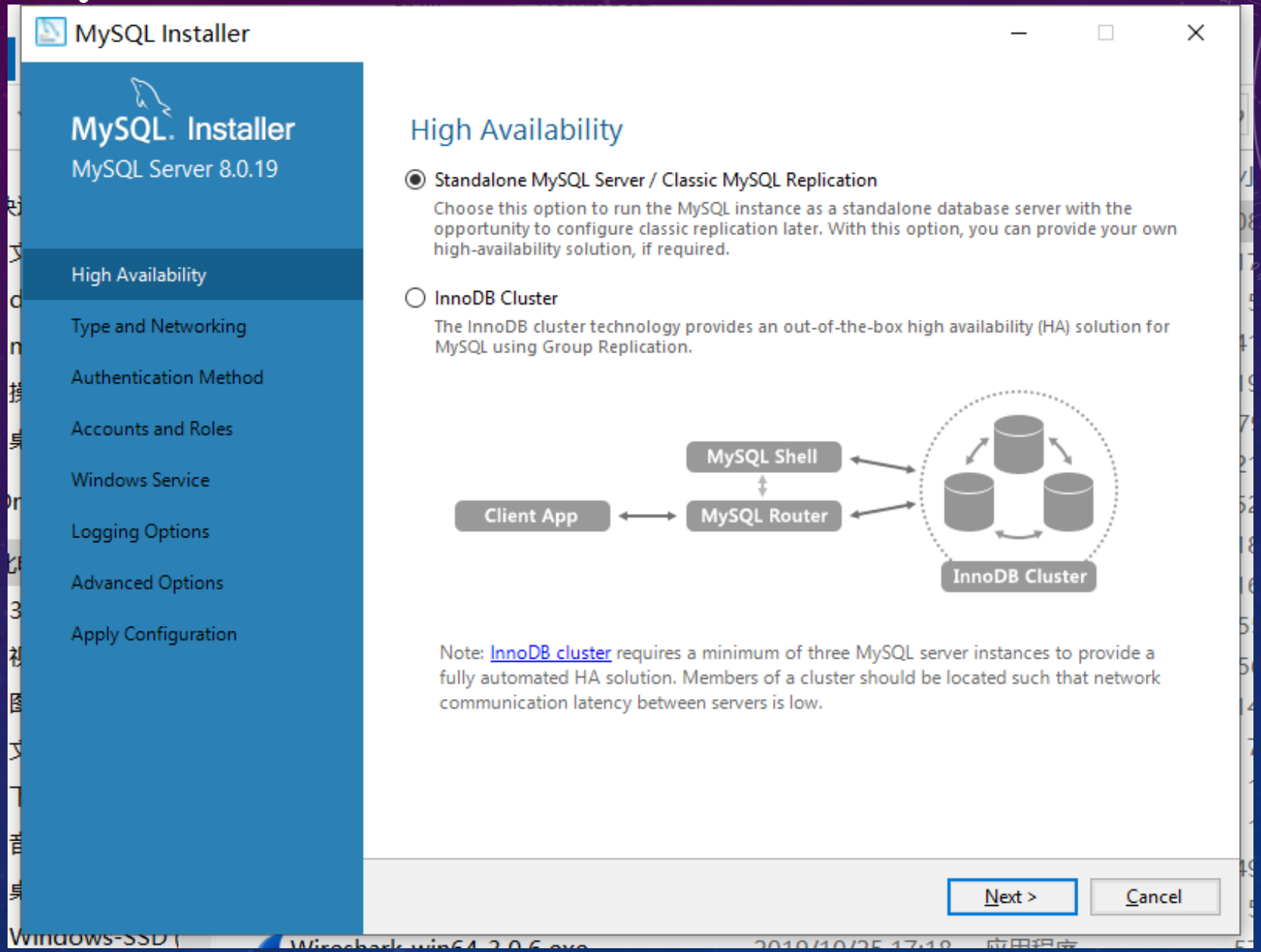

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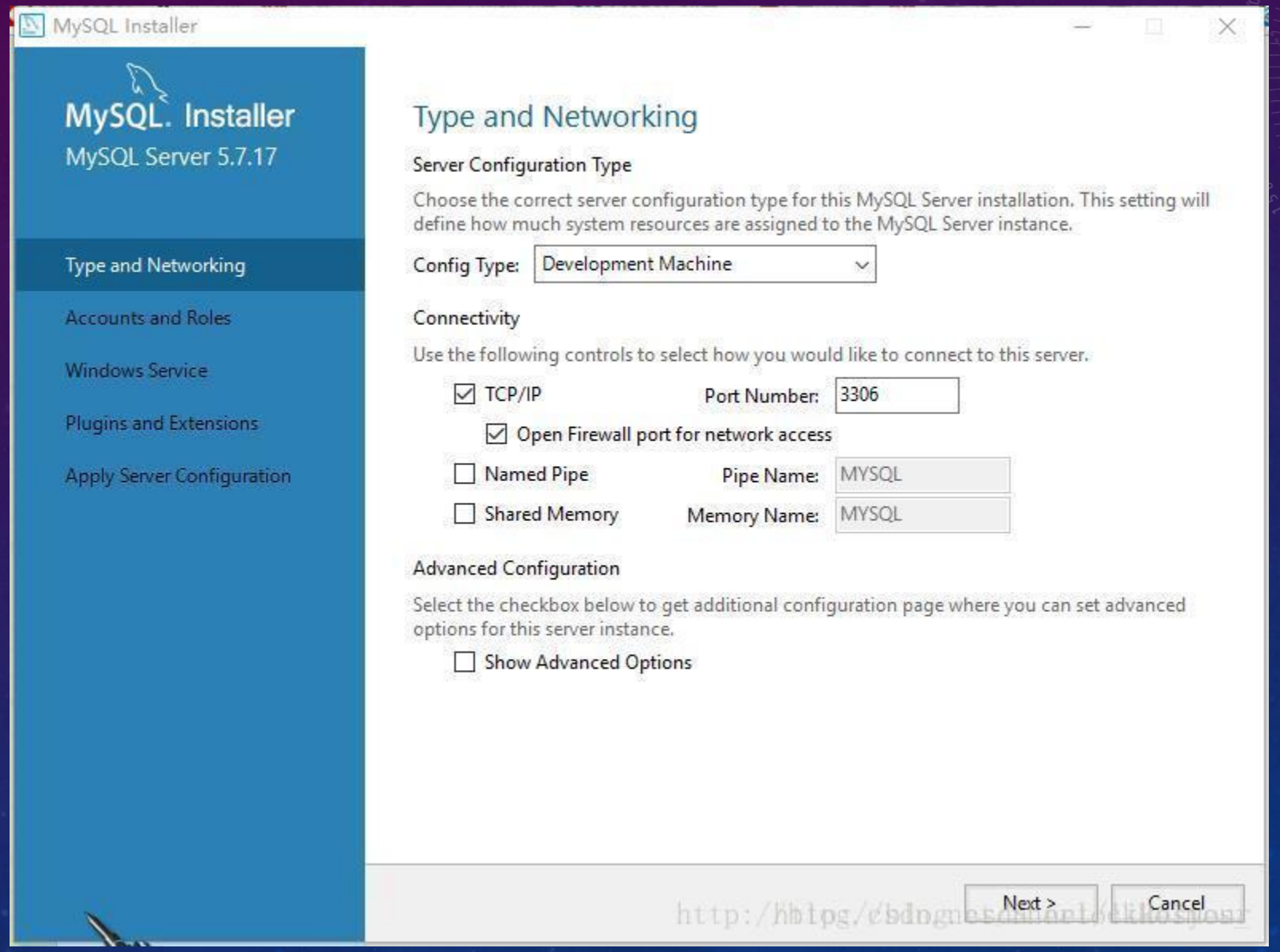

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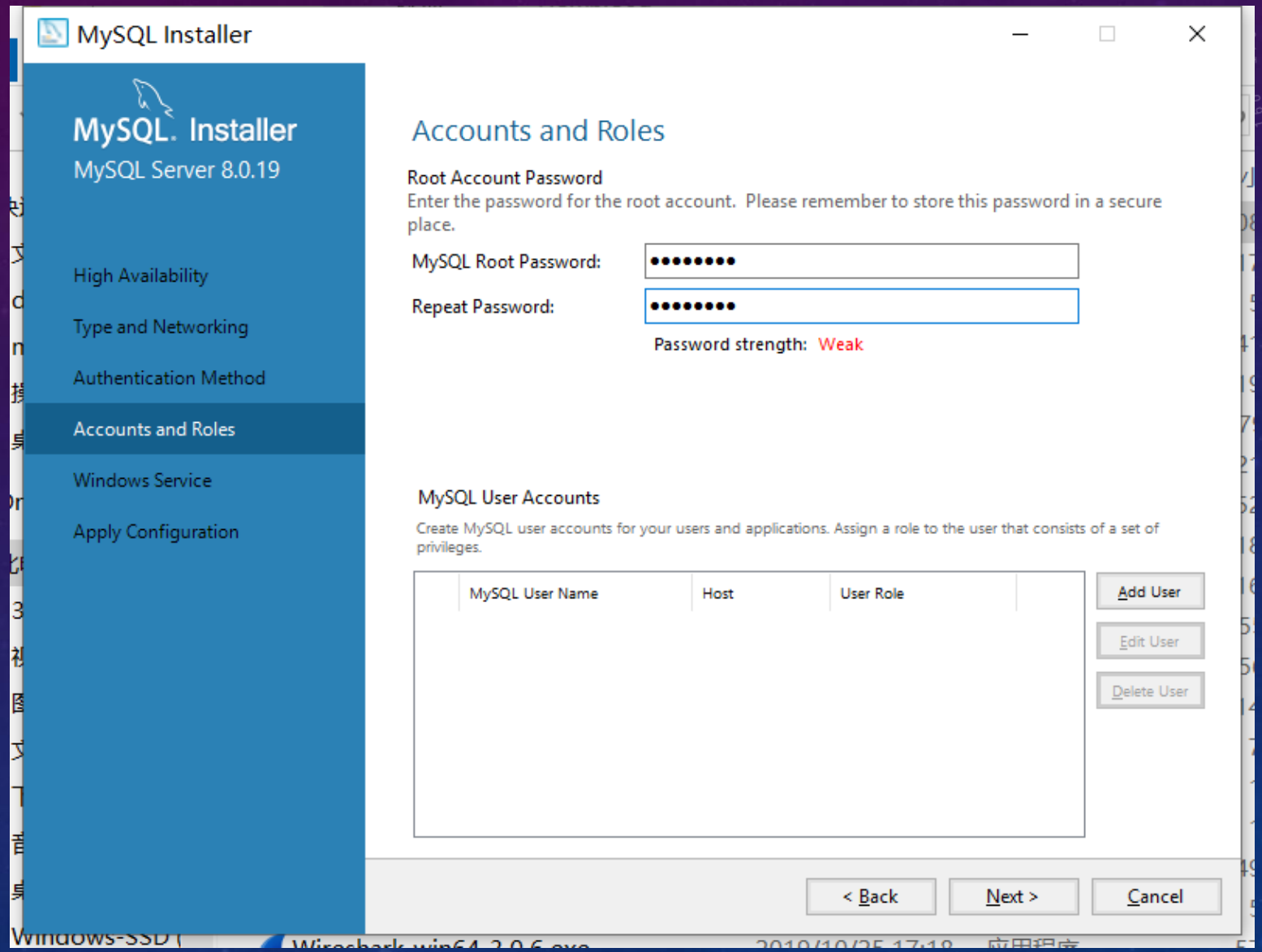
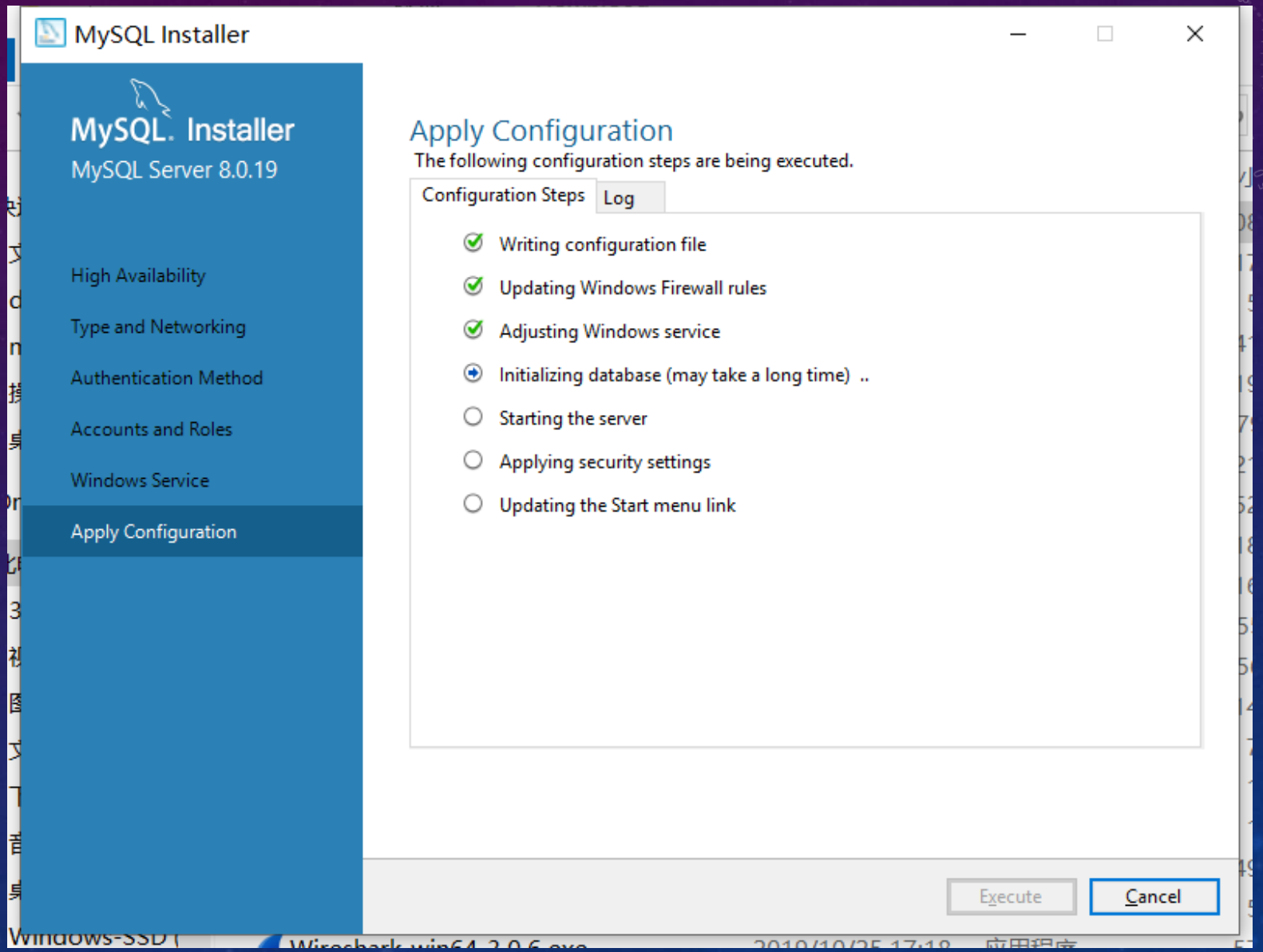
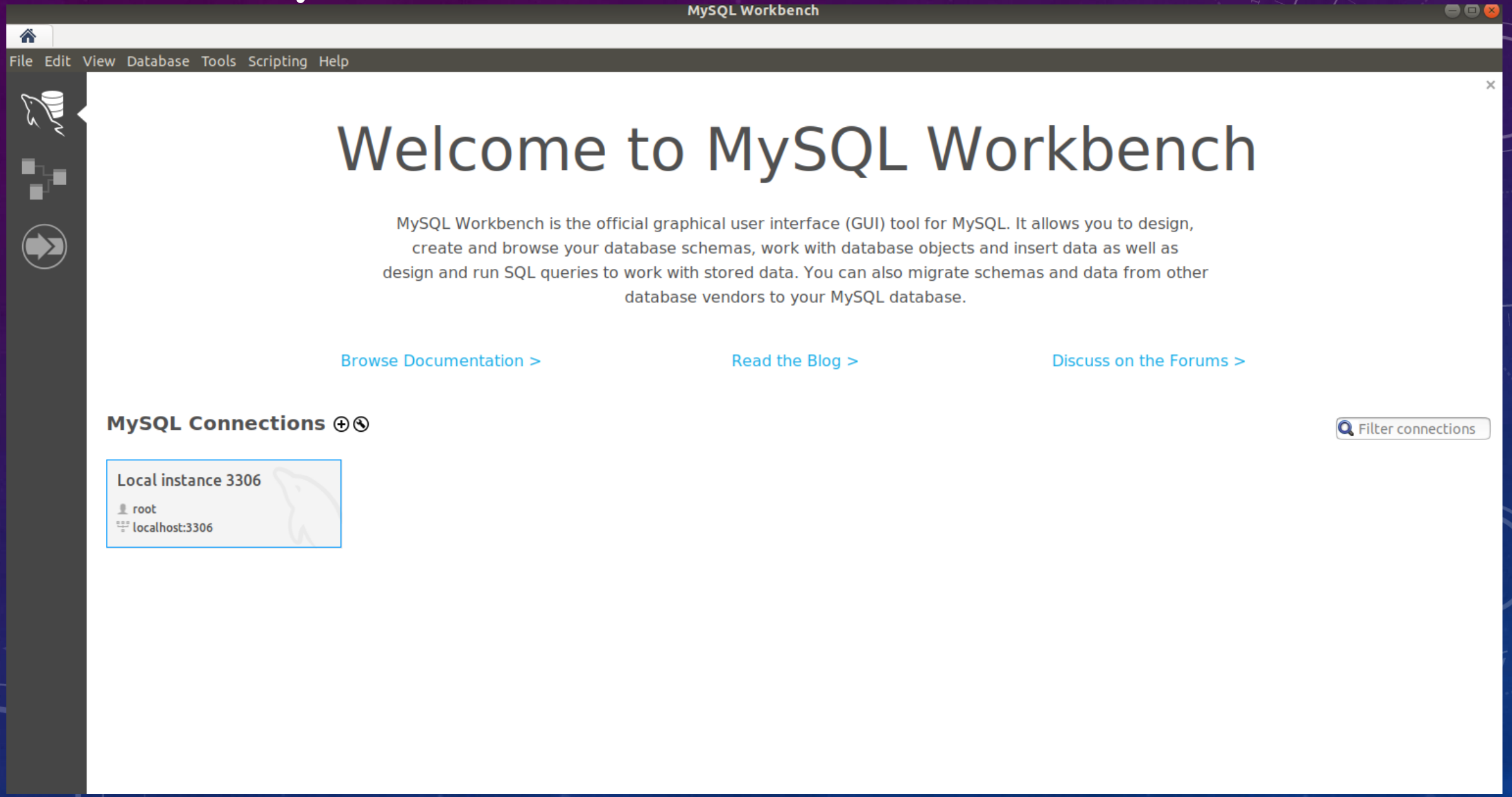


MYSQL INSTALL



MYSQL: GUI CLIENT APPLICATION



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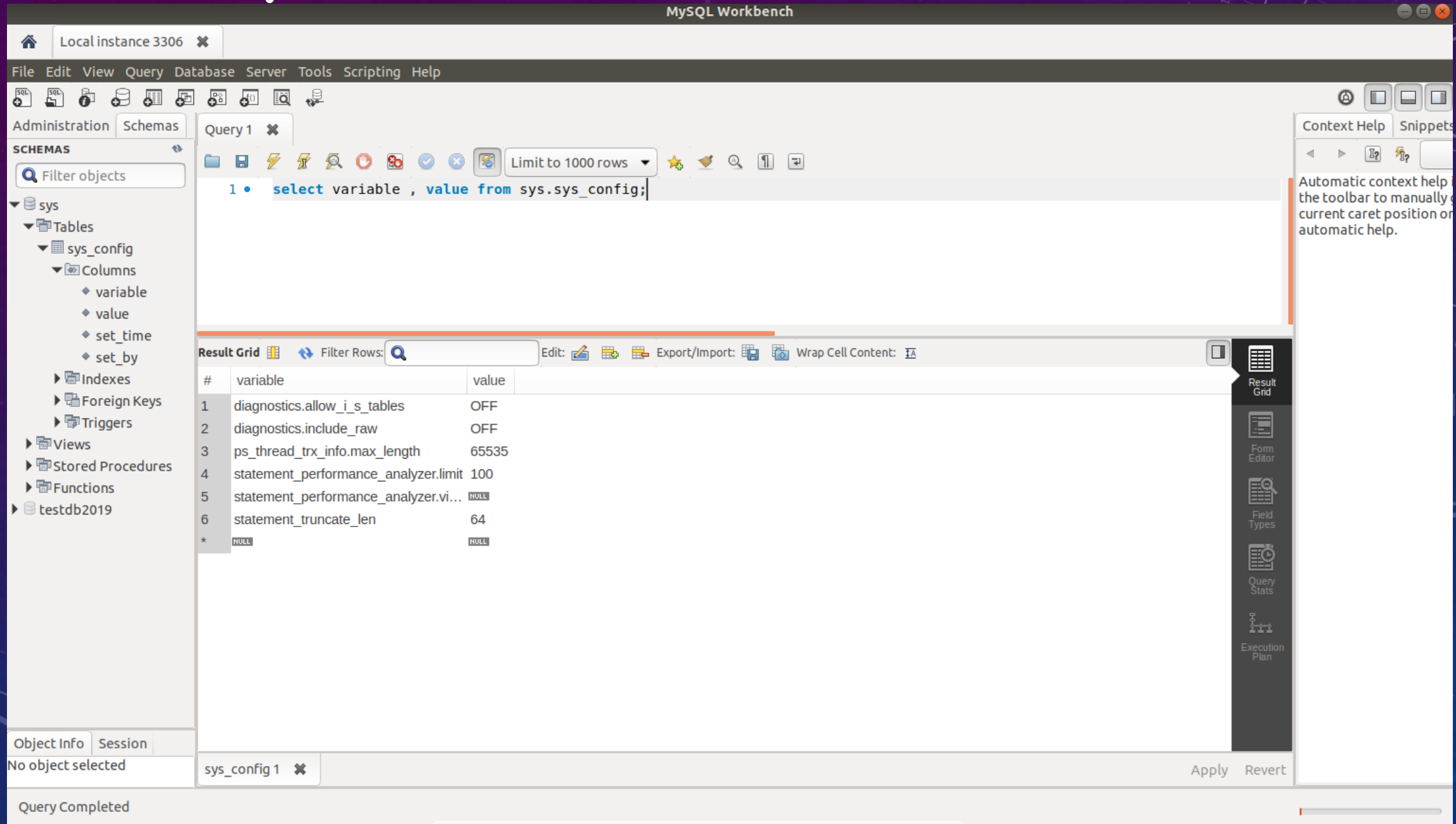
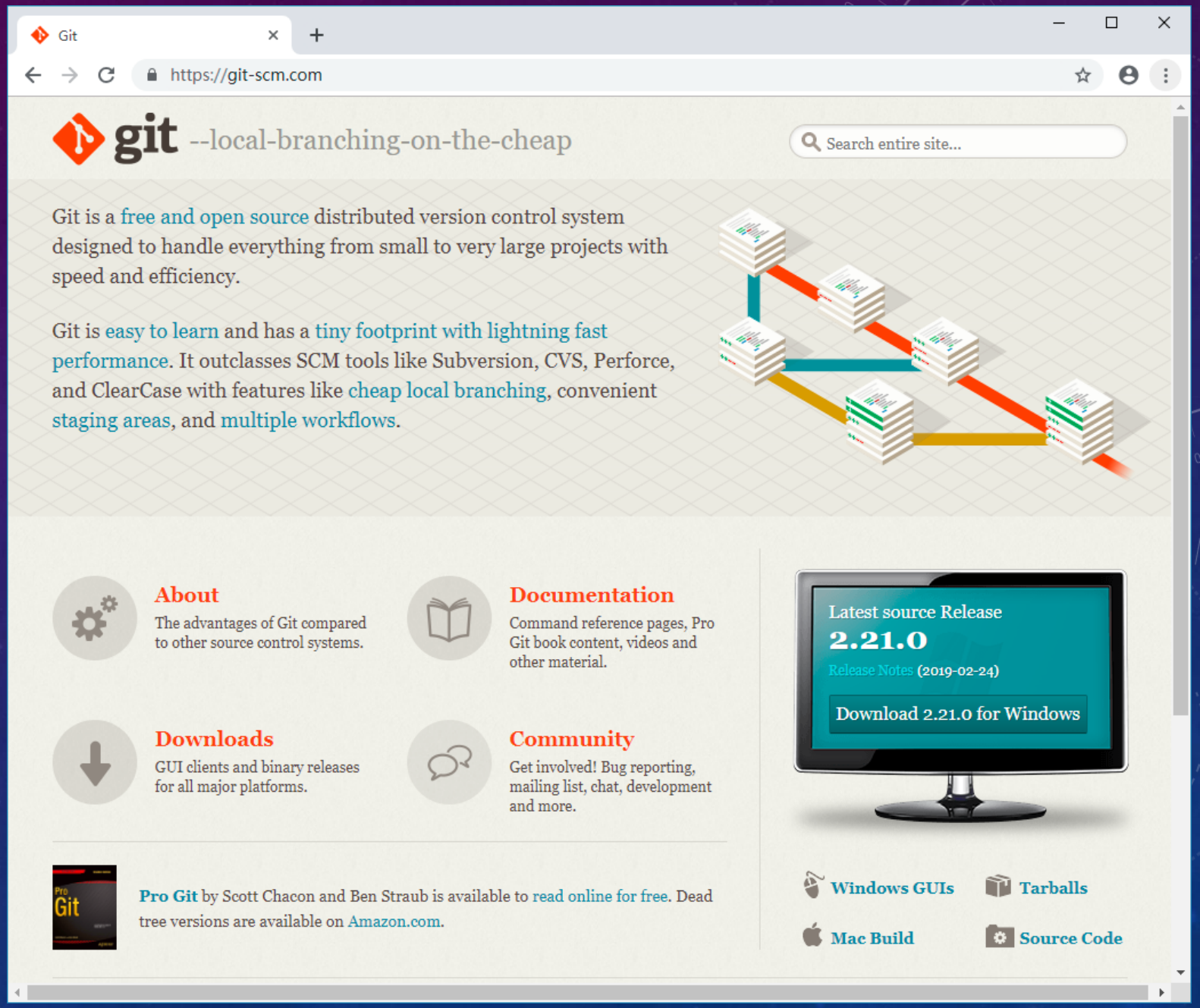


Download courseware

LABS PREPARE

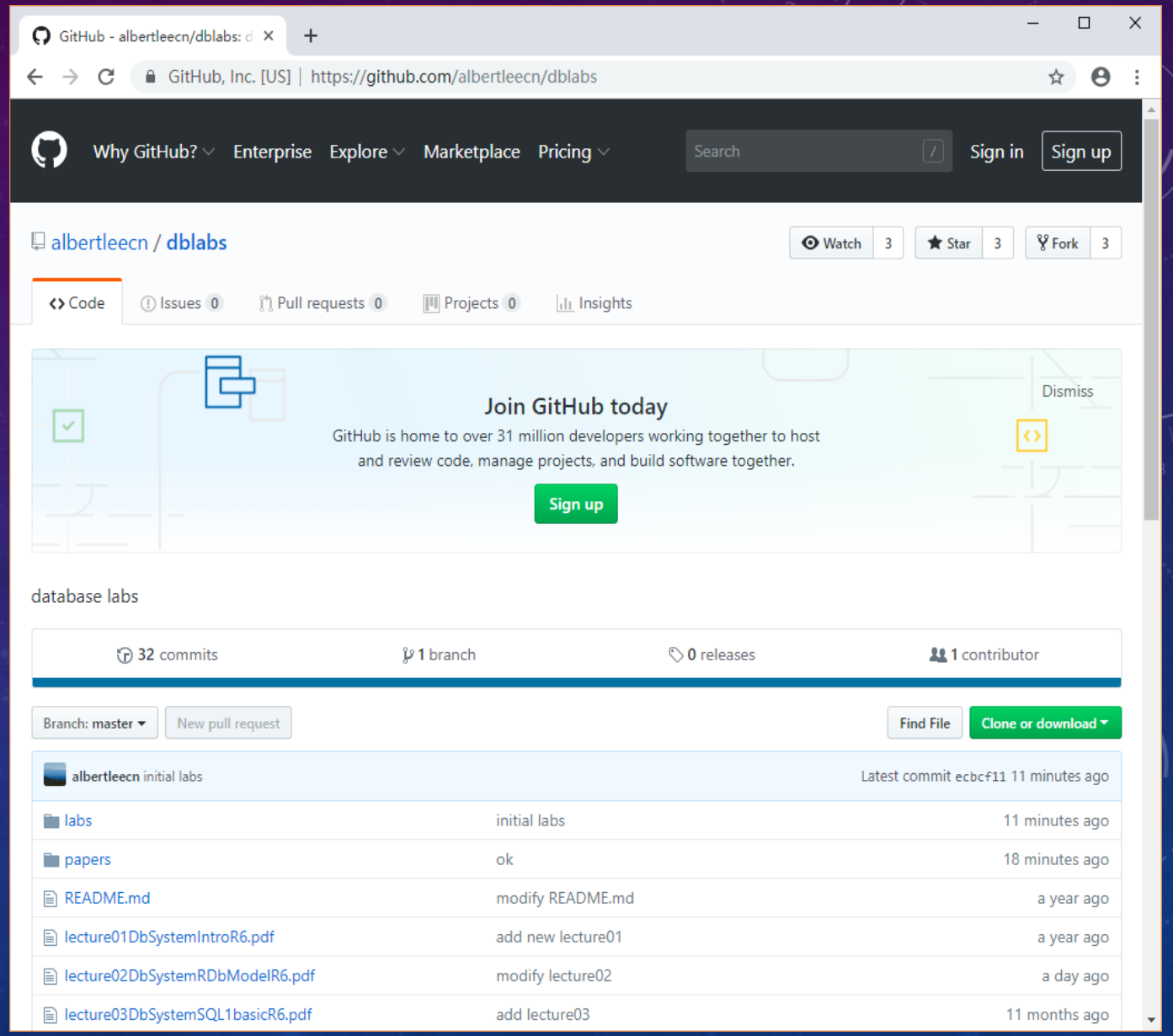
- git
  - https://git-scm.com
  - Download
  - Install



LABS PREPARE

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

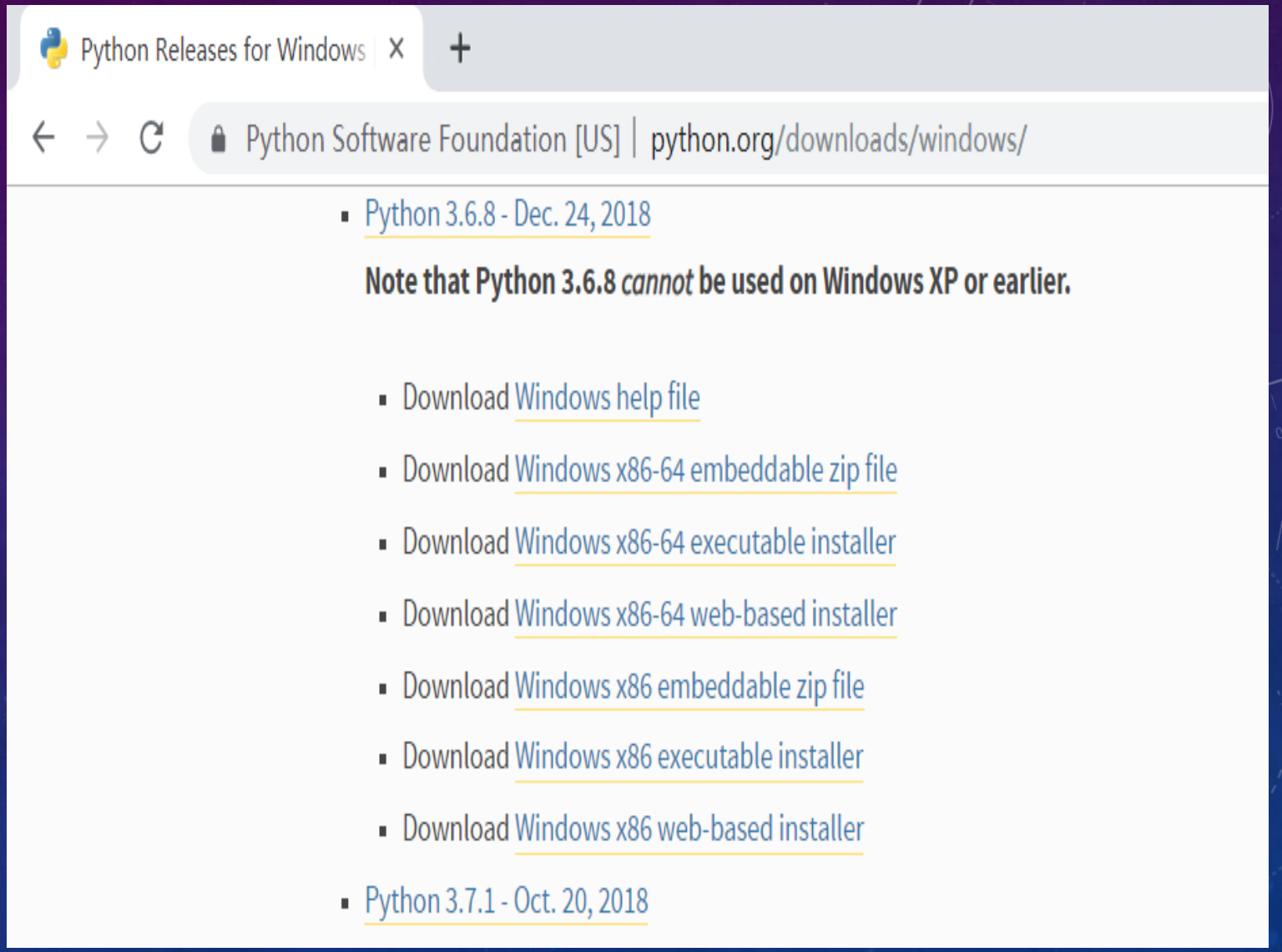
    Get the latest documentation



Install Python3.6 and Pycharm

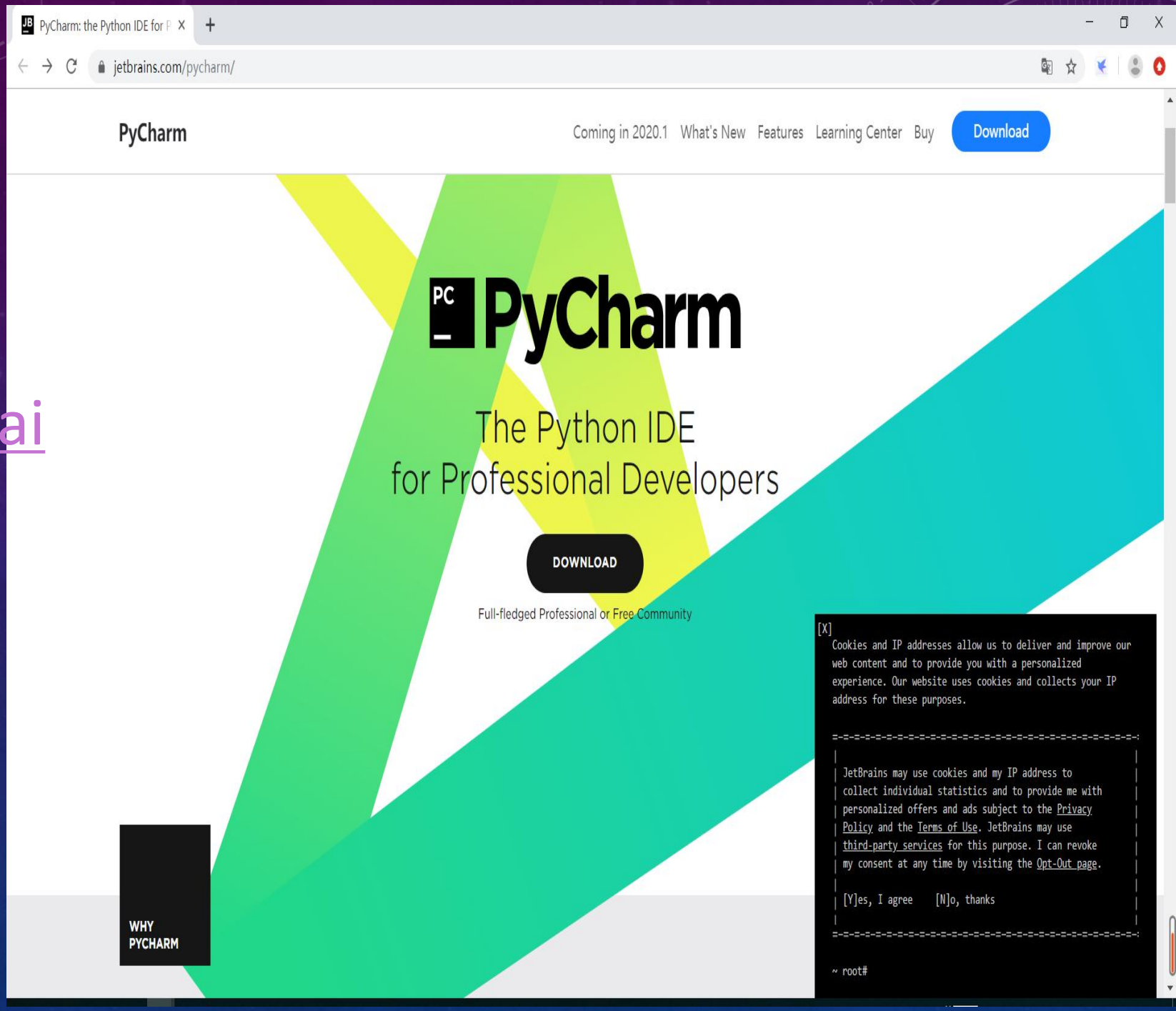
LABS PREPARE

- python
  - https://www.python.org/downloads/windows/
  - Download
  - Install



LABS PREPARE

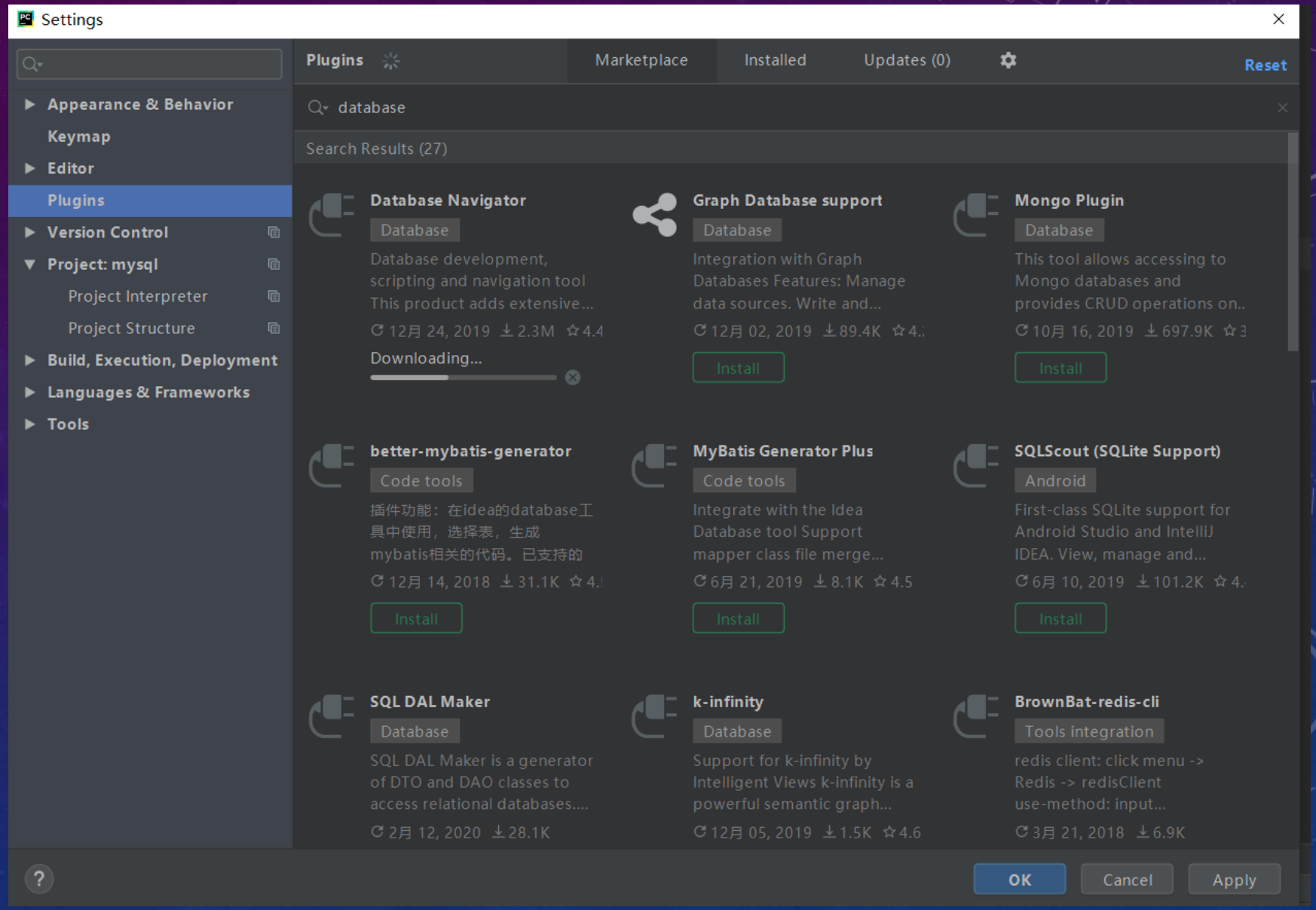
- pycharm
  - https://www.jetbrains.com/pycharm/
  - Download
  - Install



Connect MySQL using python

PYCHARM

- Add reference
  - PyMySQL
    - Pip install PyMySQL



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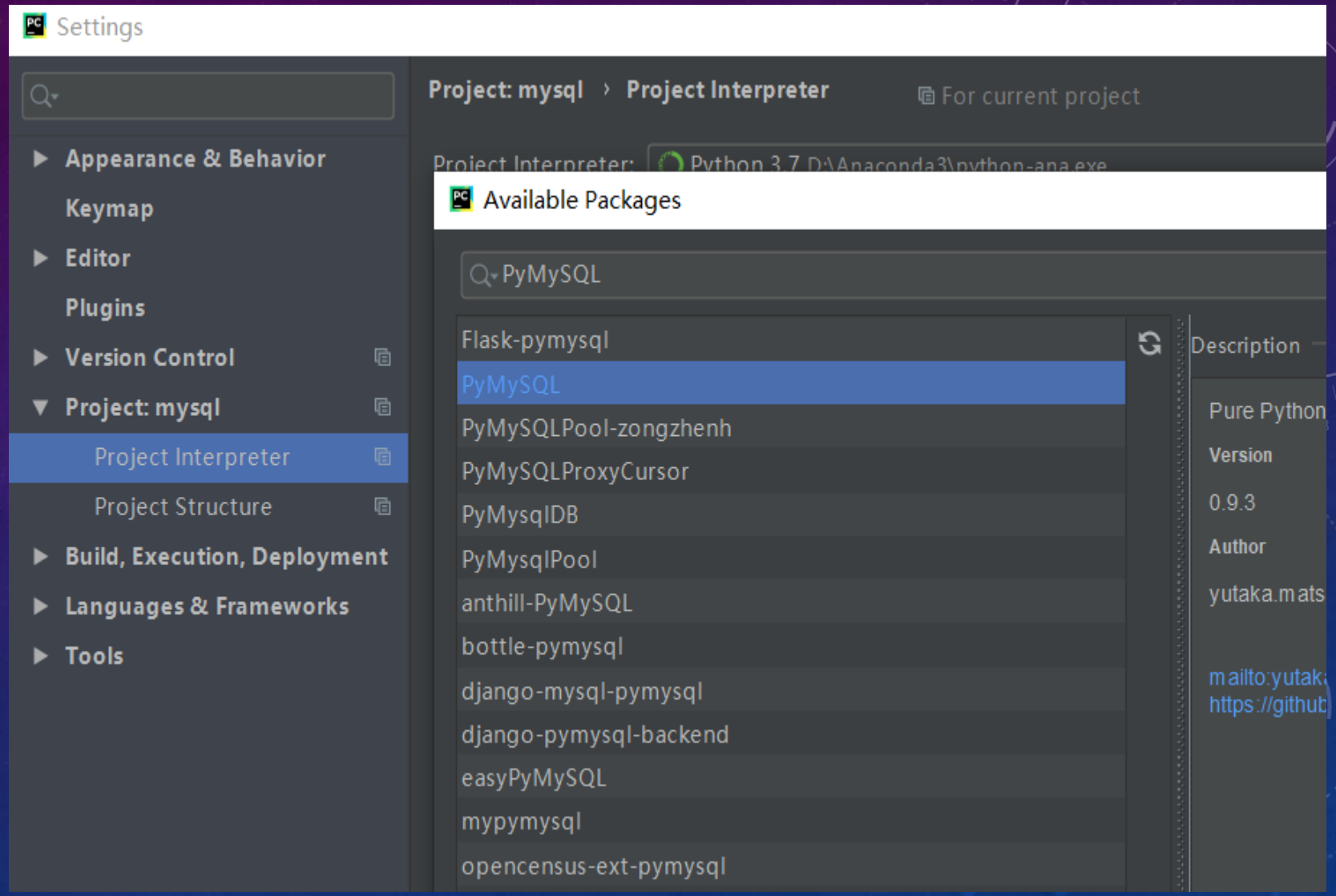

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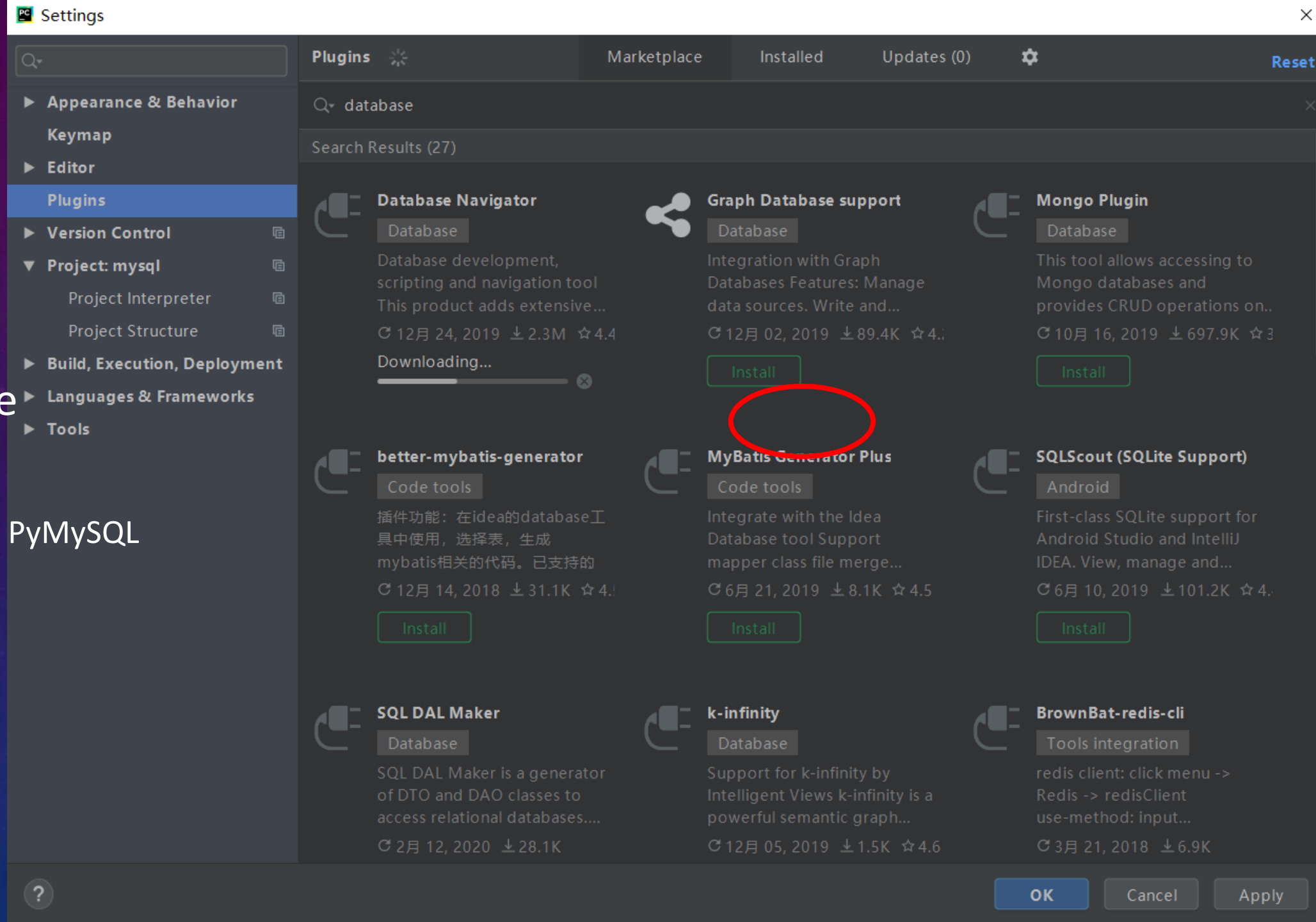

CONNECTION

```
Database version : 8.0.19

Process finished with exit code 0
```

```python
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()
```

THANKS !

leexudong@nankai.edu.cn