# Database System Labs
# - Prepare

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# OBJECTIVES

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

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# Download courseware

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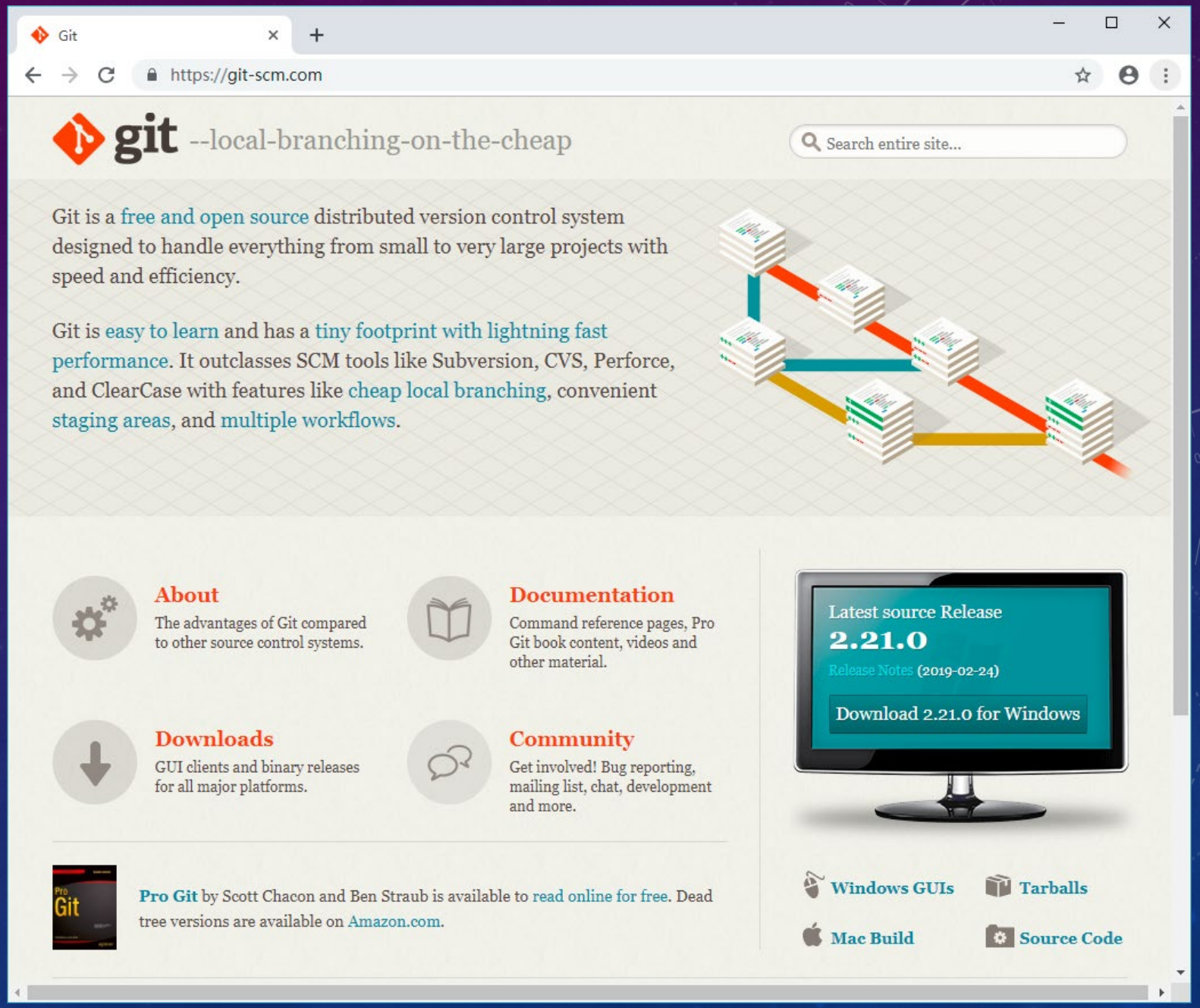
# LABS PREPARE

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

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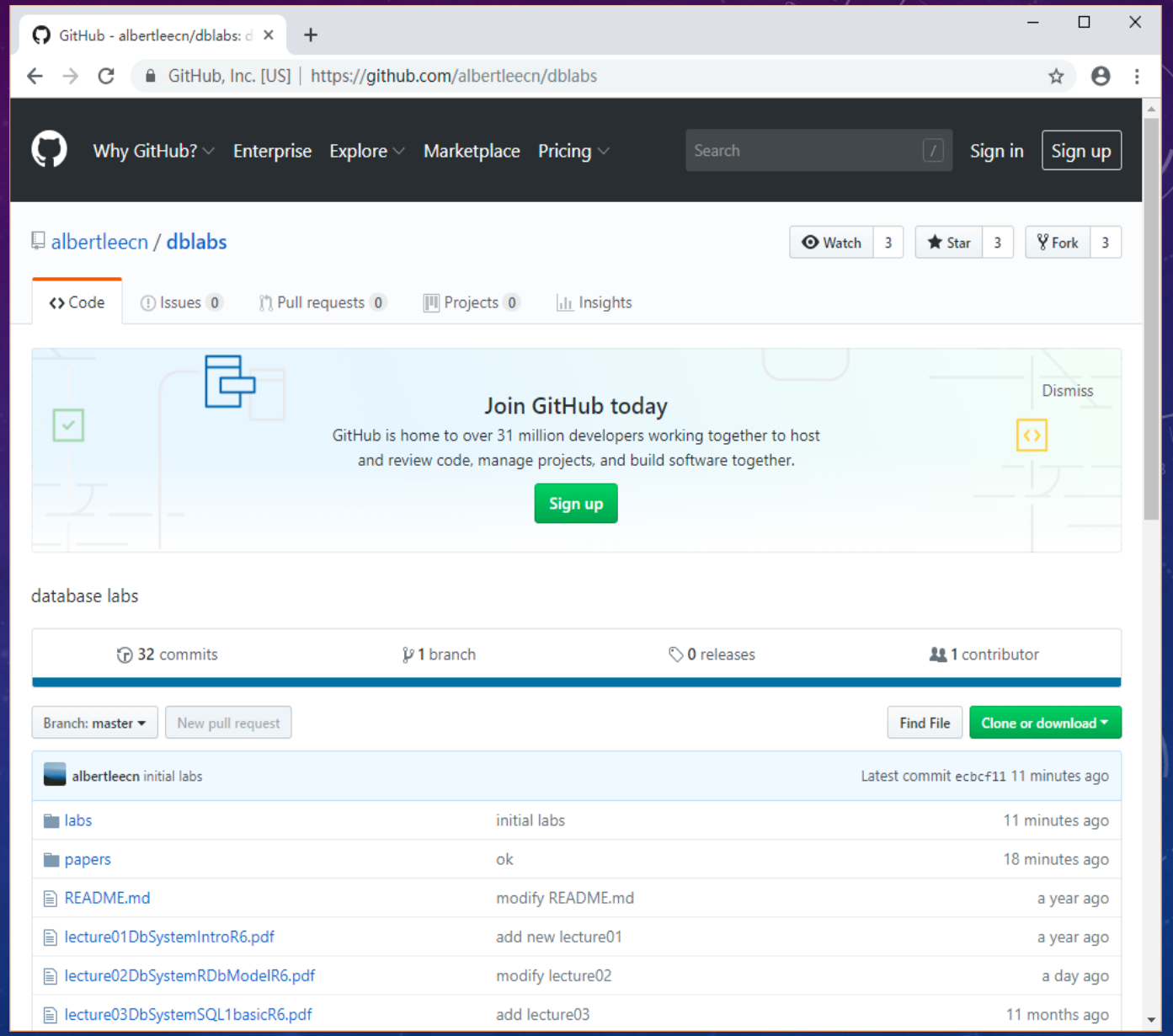
git clone https://github.com/albertleecn/dblabs.git

# LABS PREPARE

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

    Get the latest documentation

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# Install mysql db server and client

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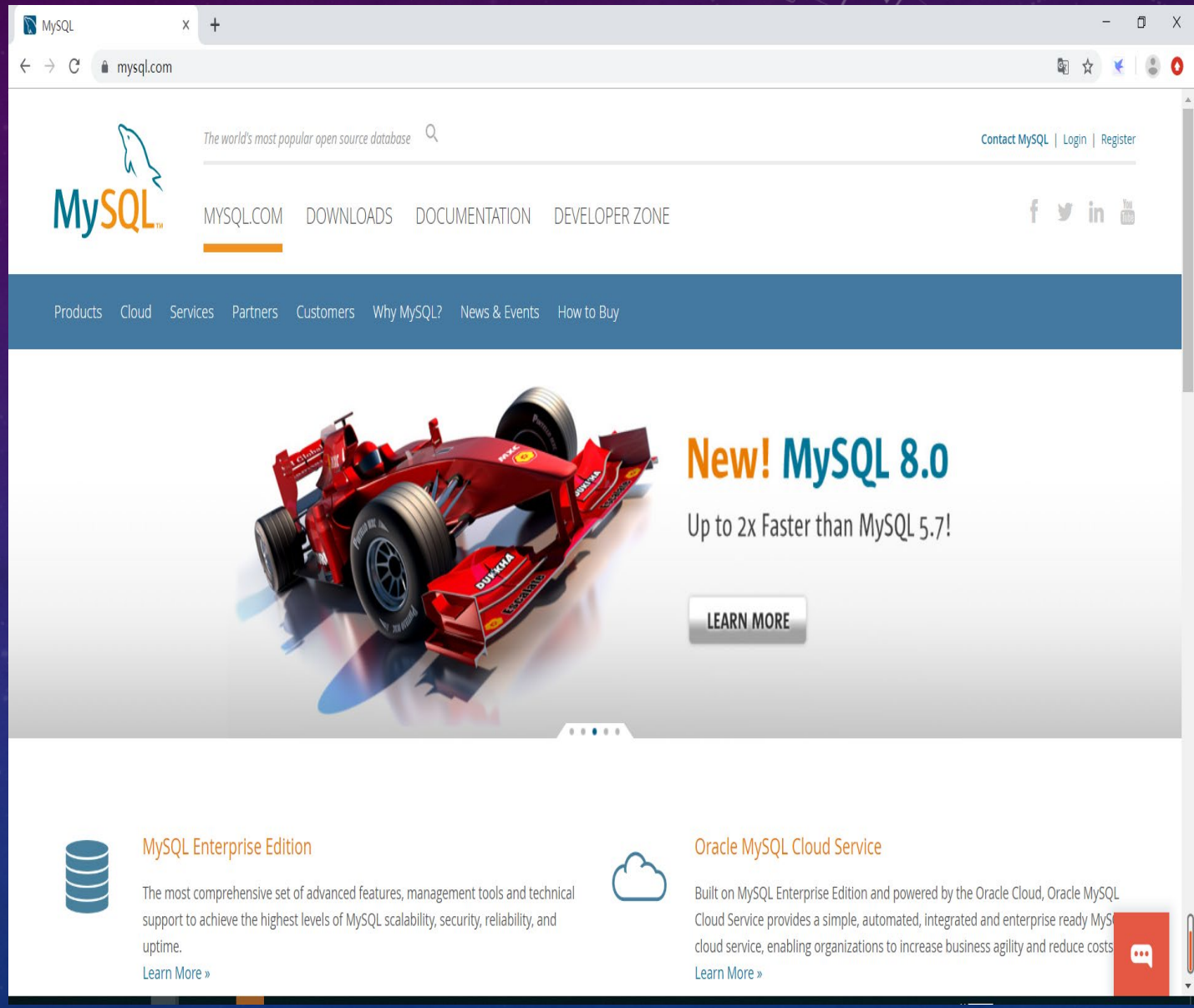
# LABS PREPARE

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

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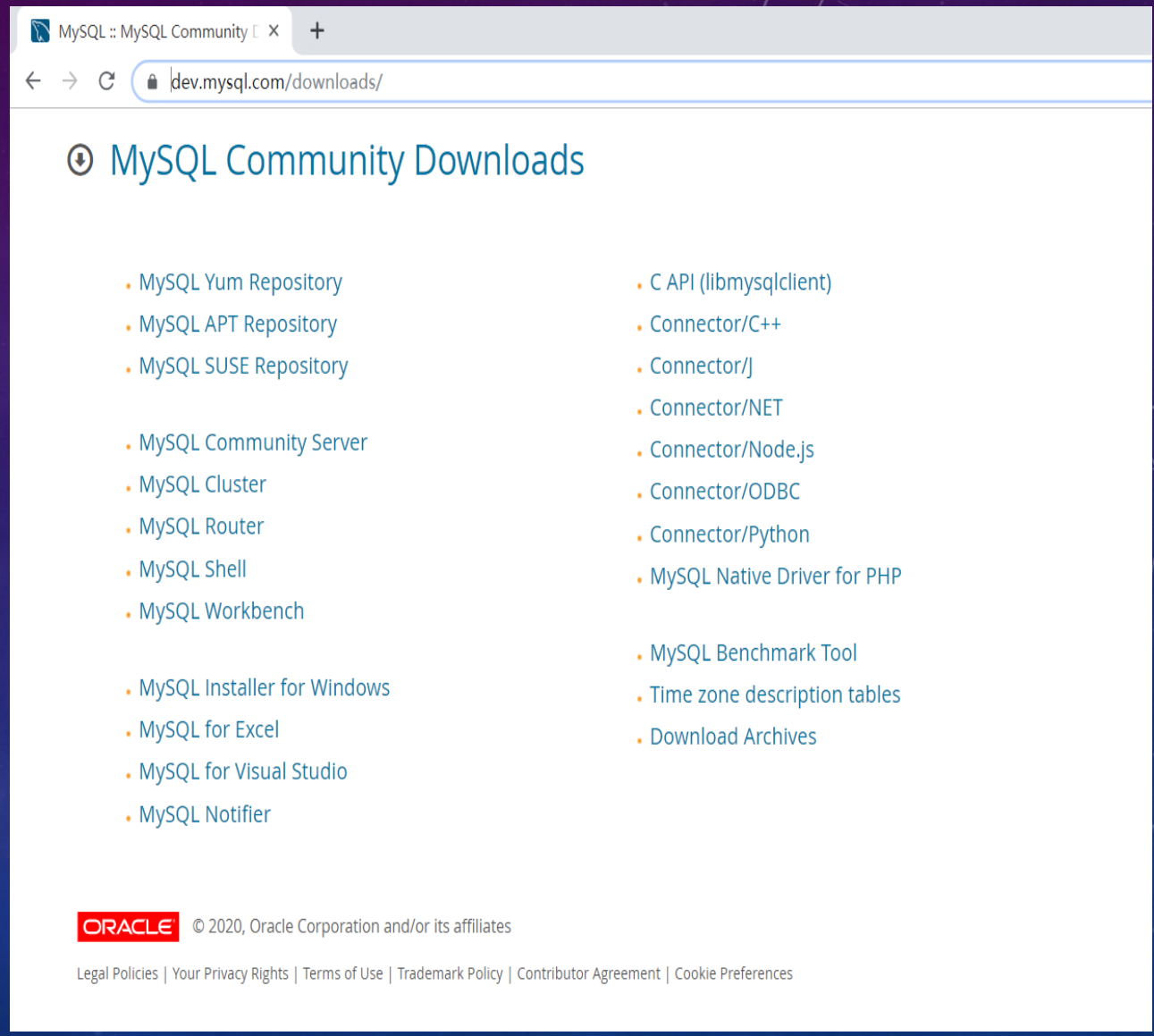
# LABS PREPARE

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

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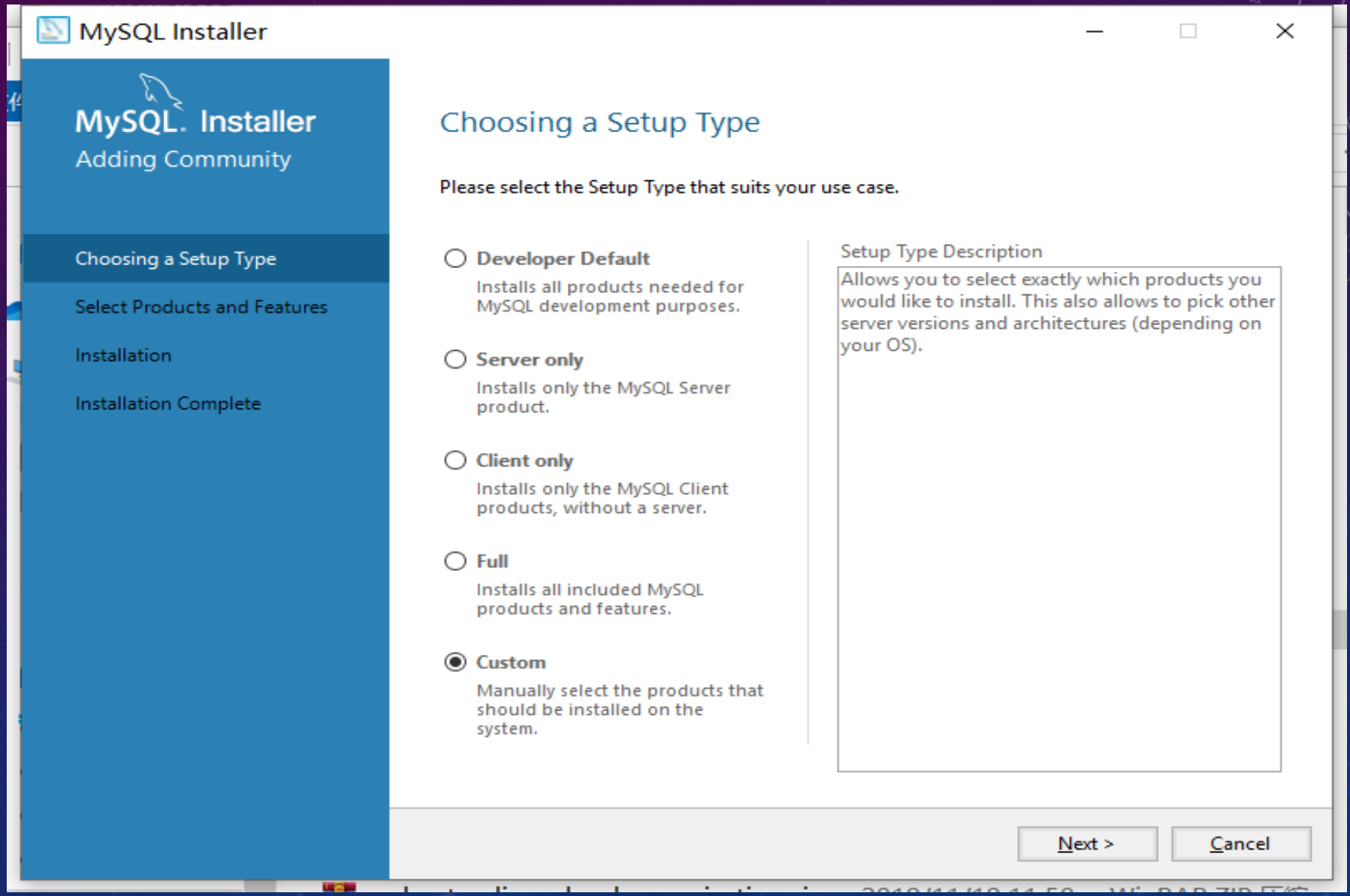
# MYSQL INSTALL

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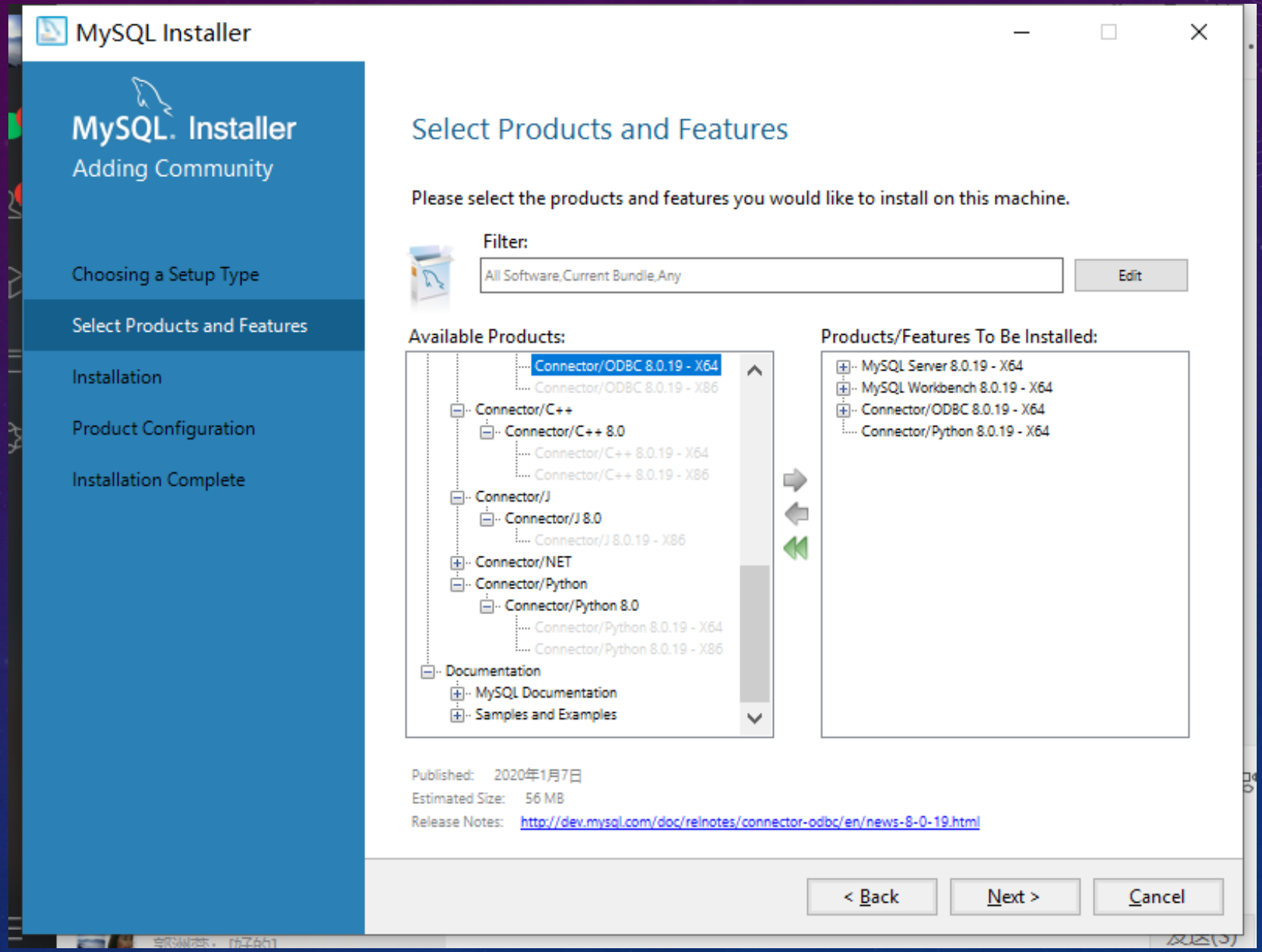


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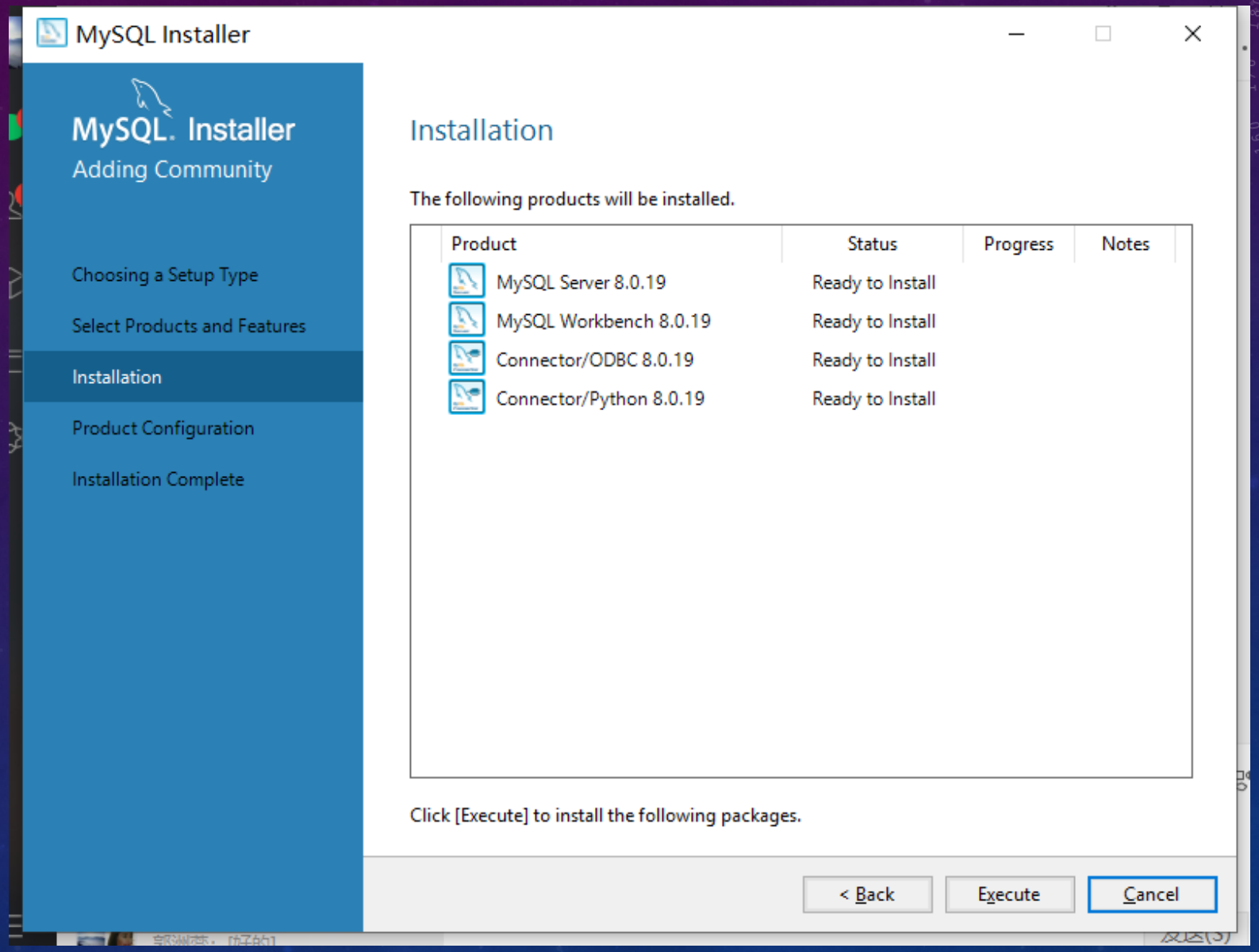


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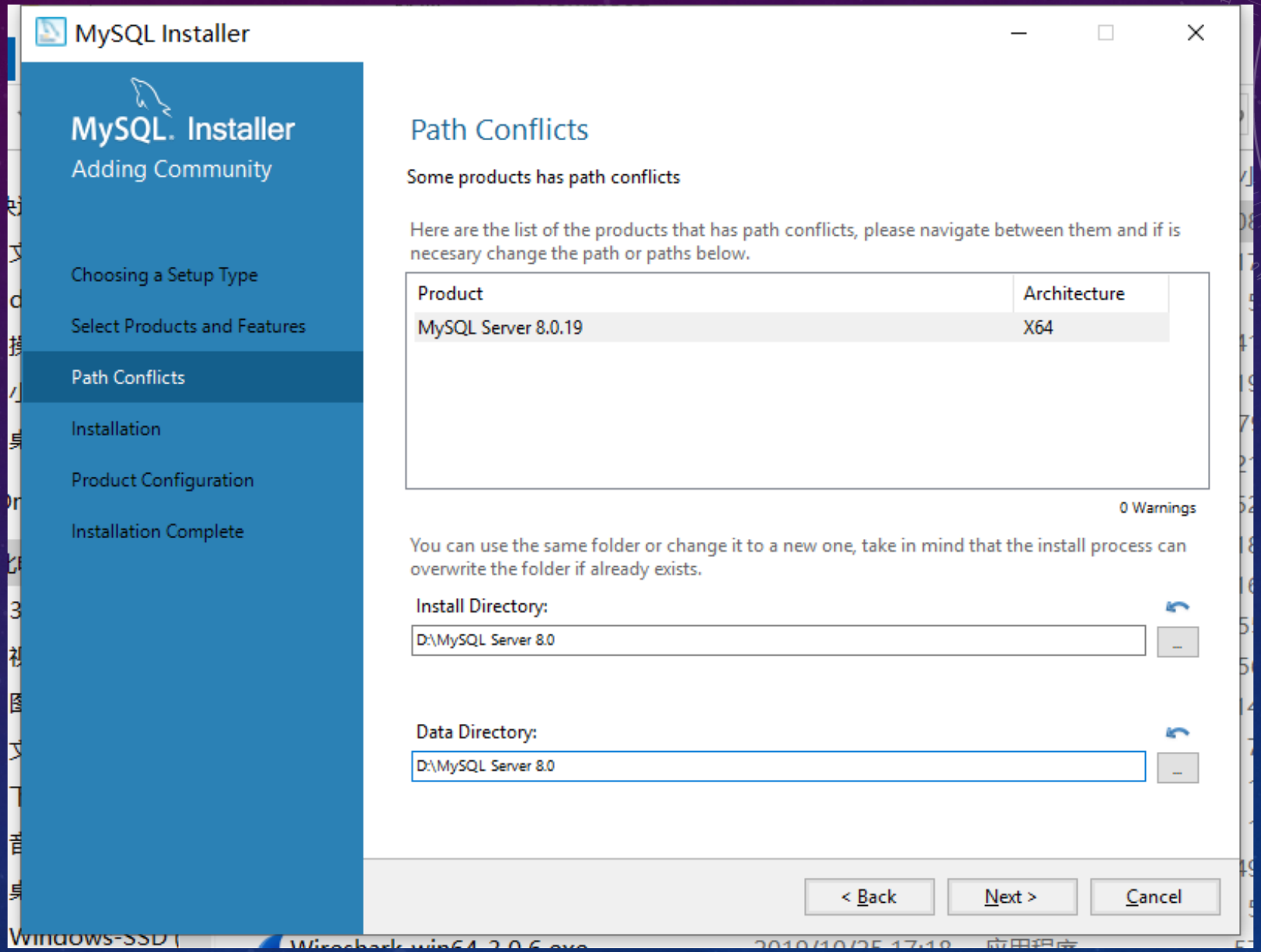


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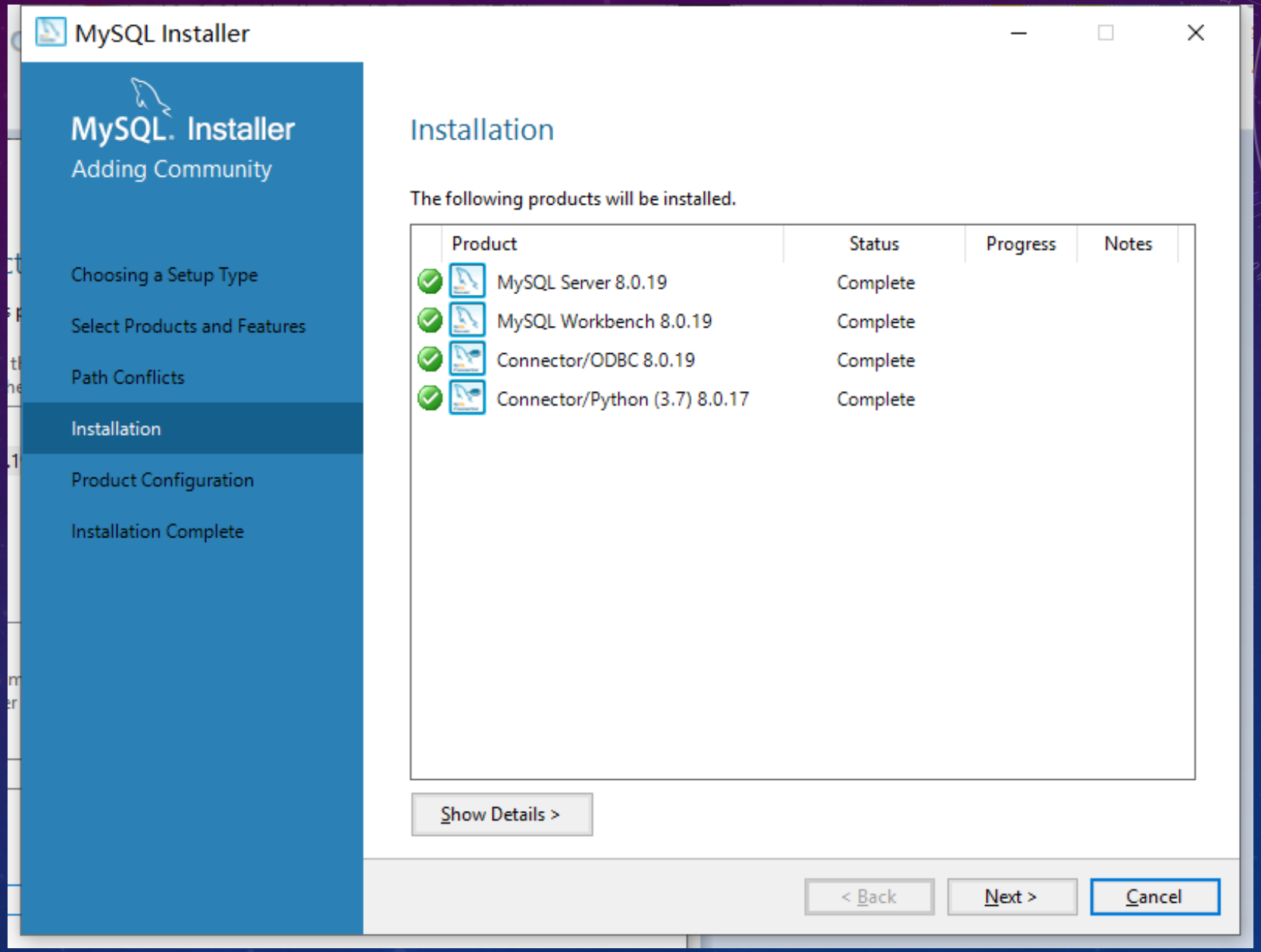


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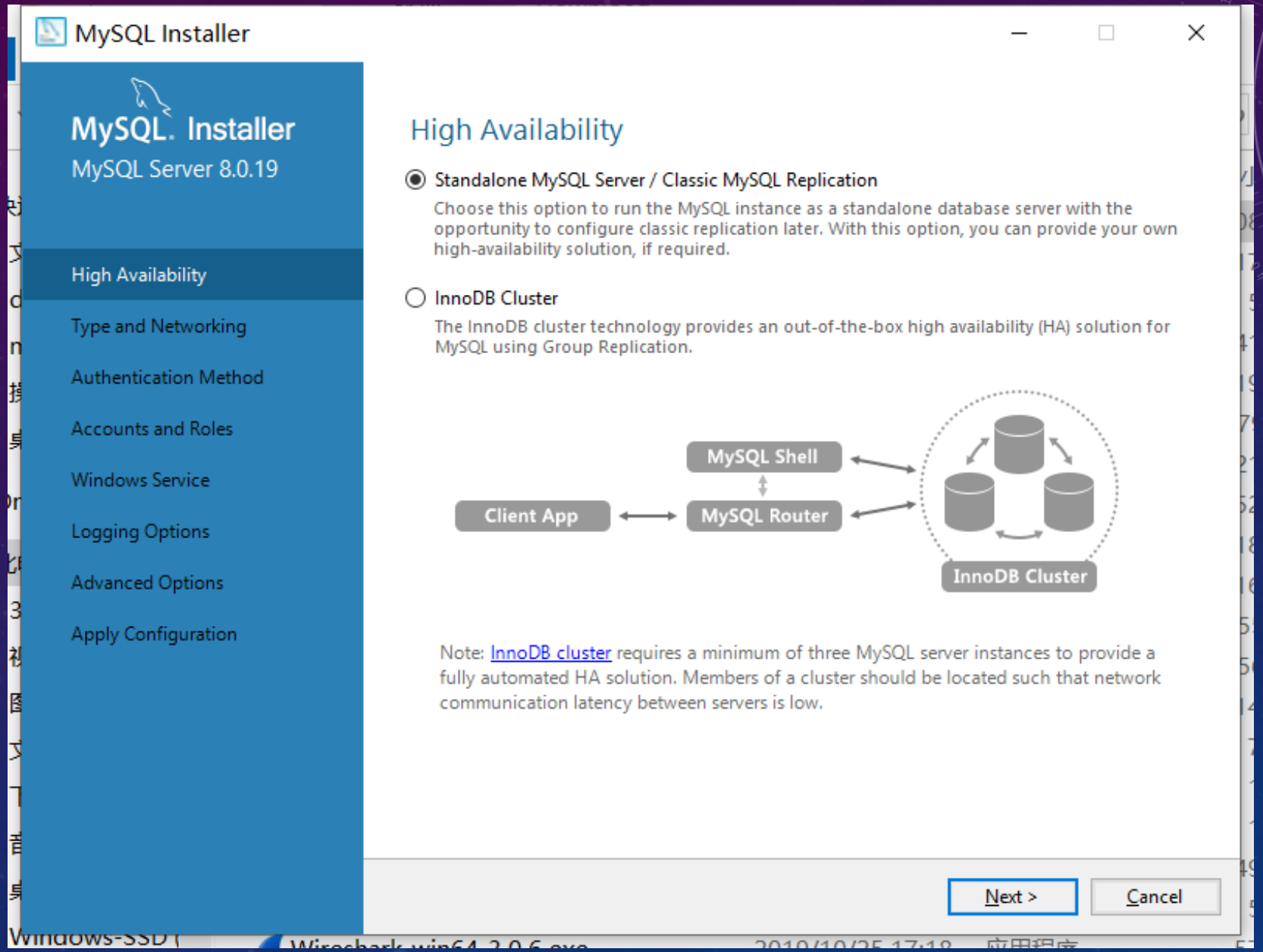


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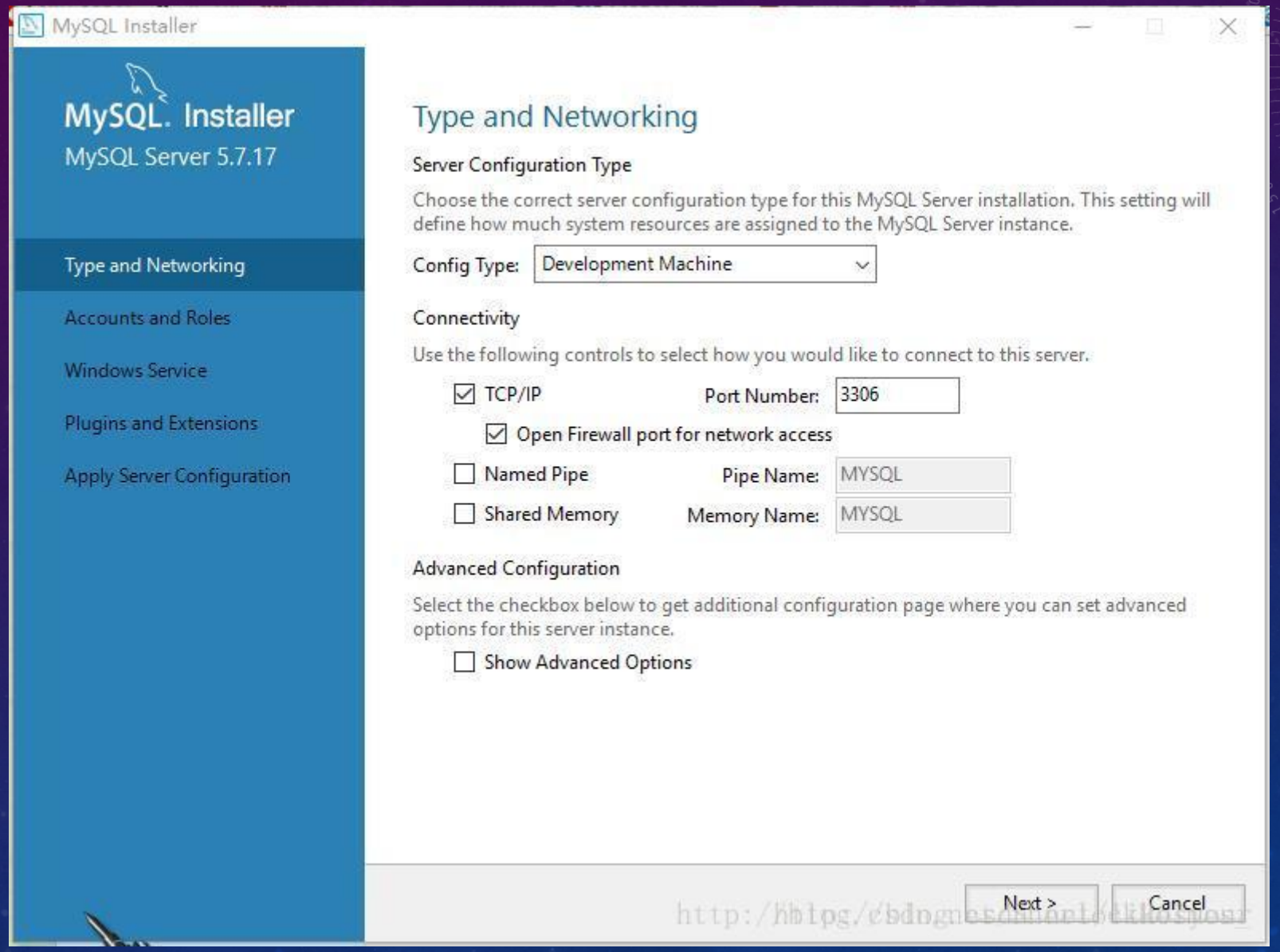


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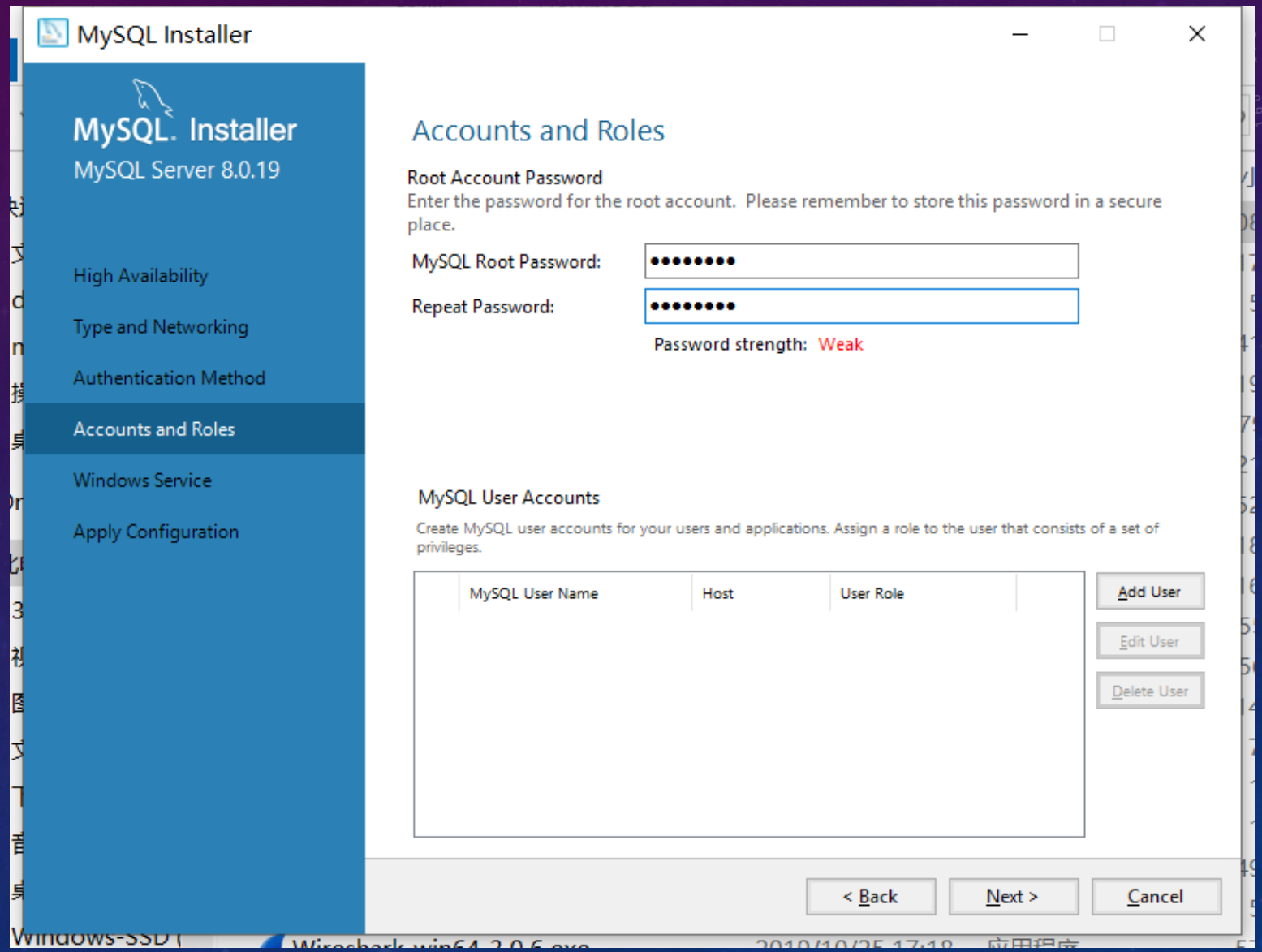


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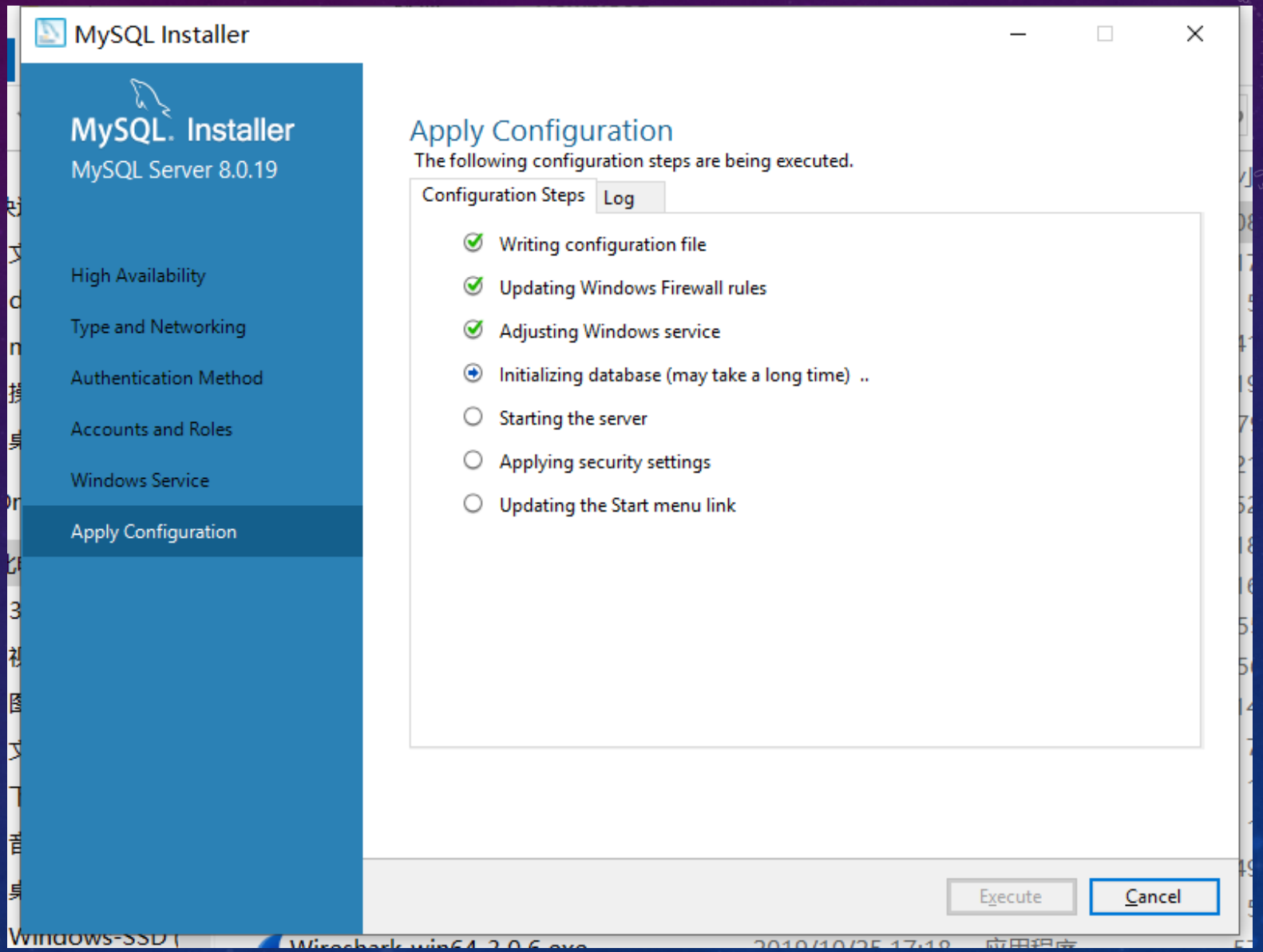


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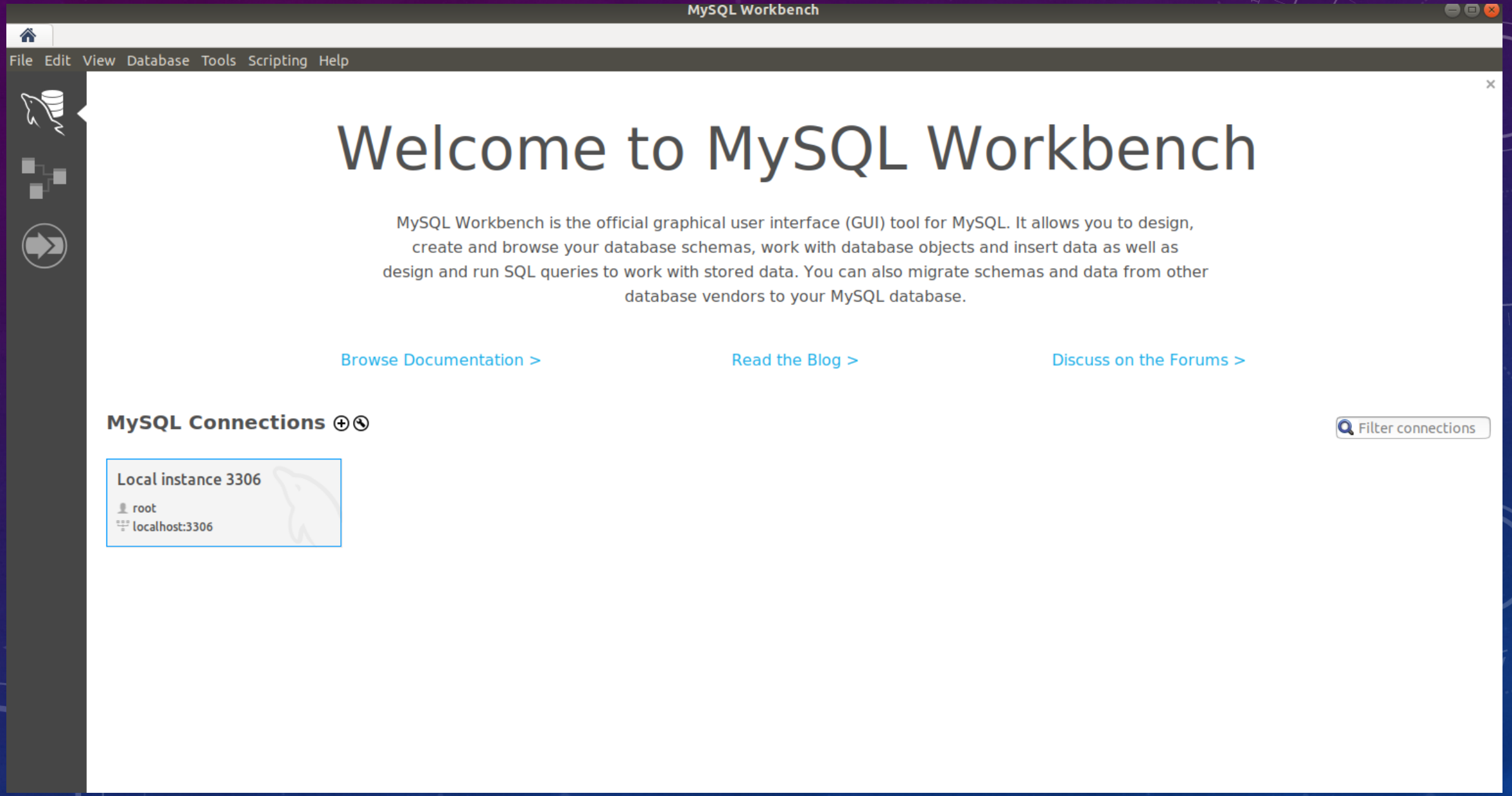
# MYSQL: GUI CLIENT APPLICATION



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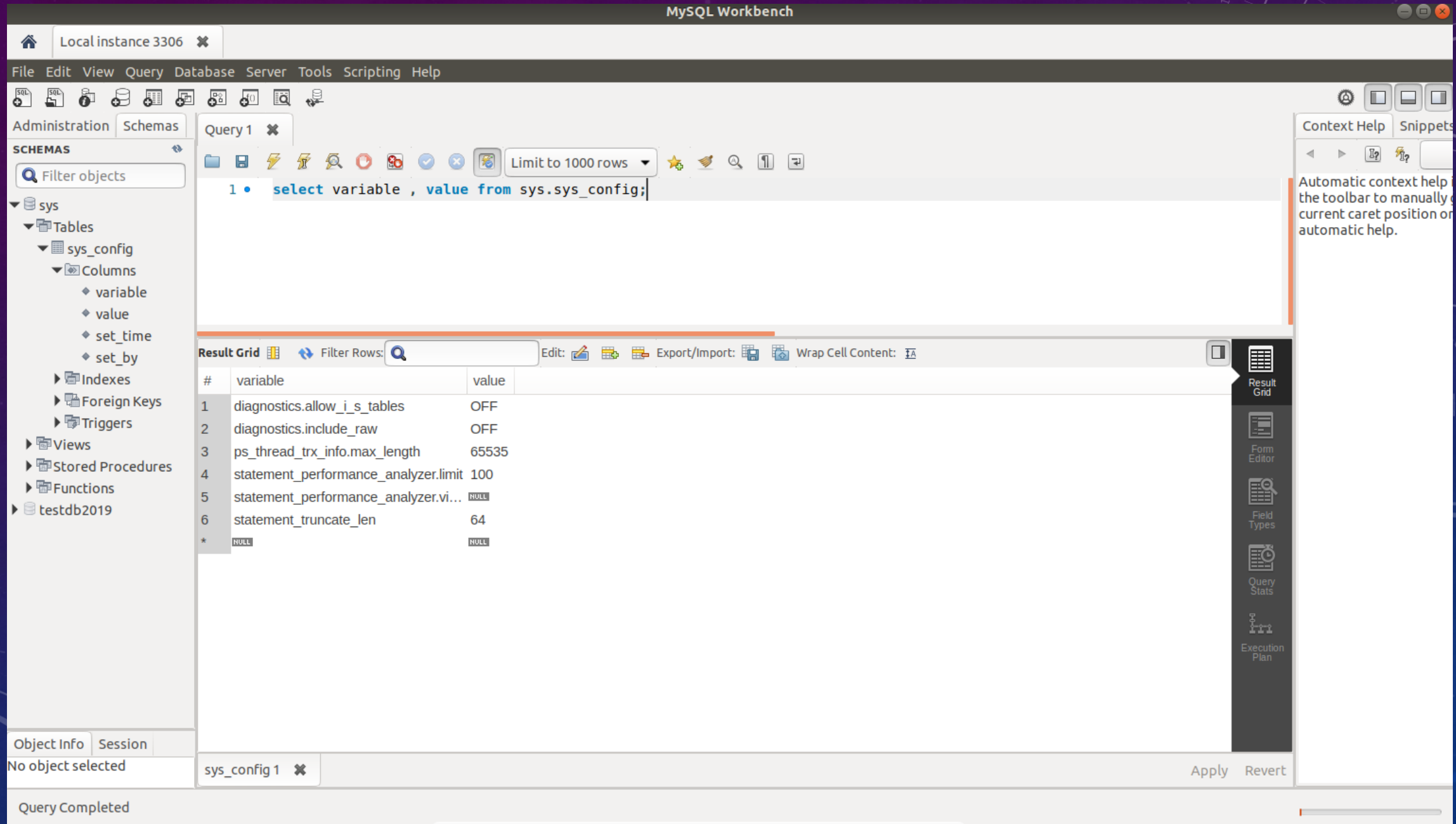

# Install Python3.6 and Pycharm

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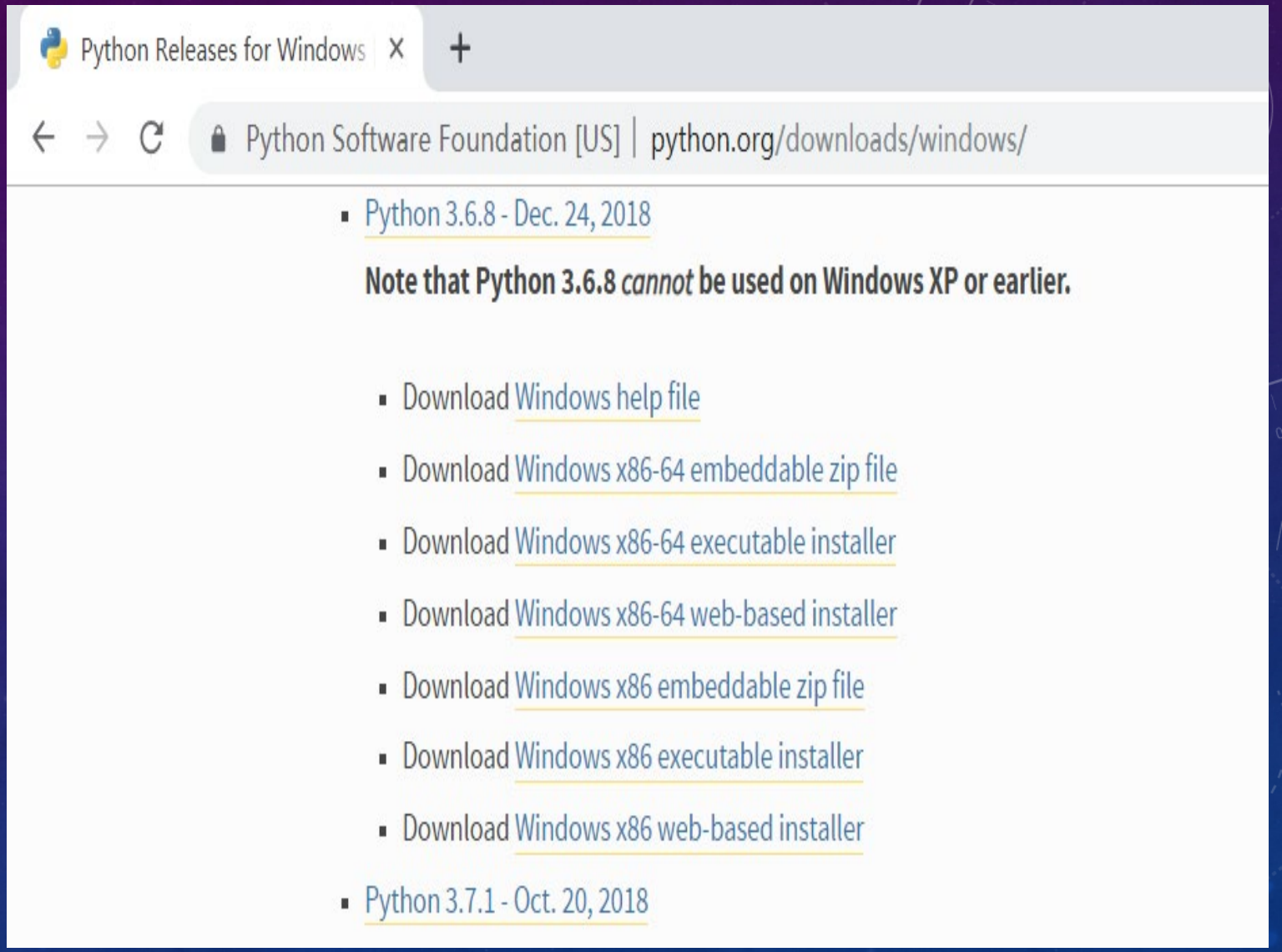
# LABS PREPARE

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

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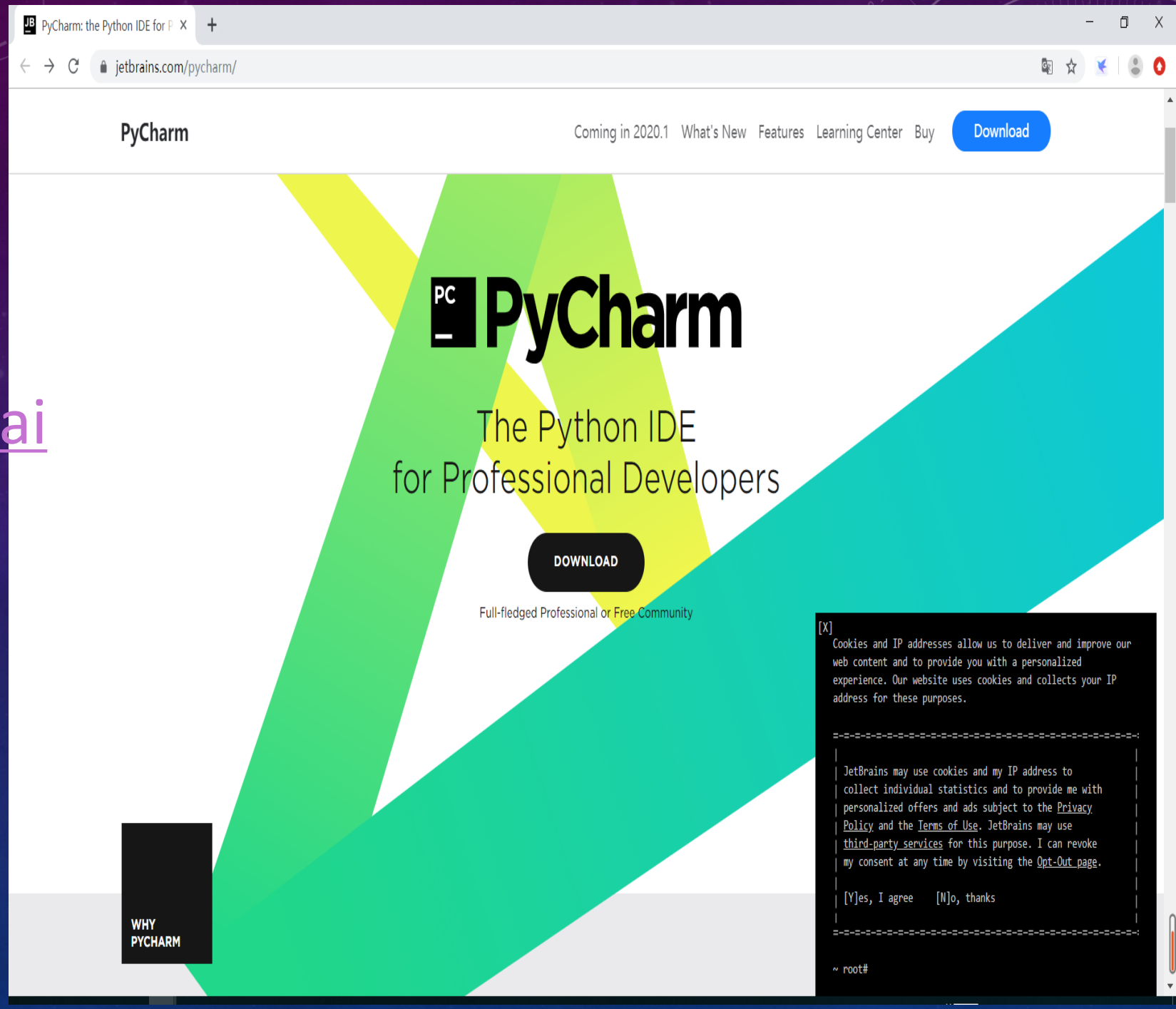
# LABS PREPARE

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

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# Connect MySQL using python

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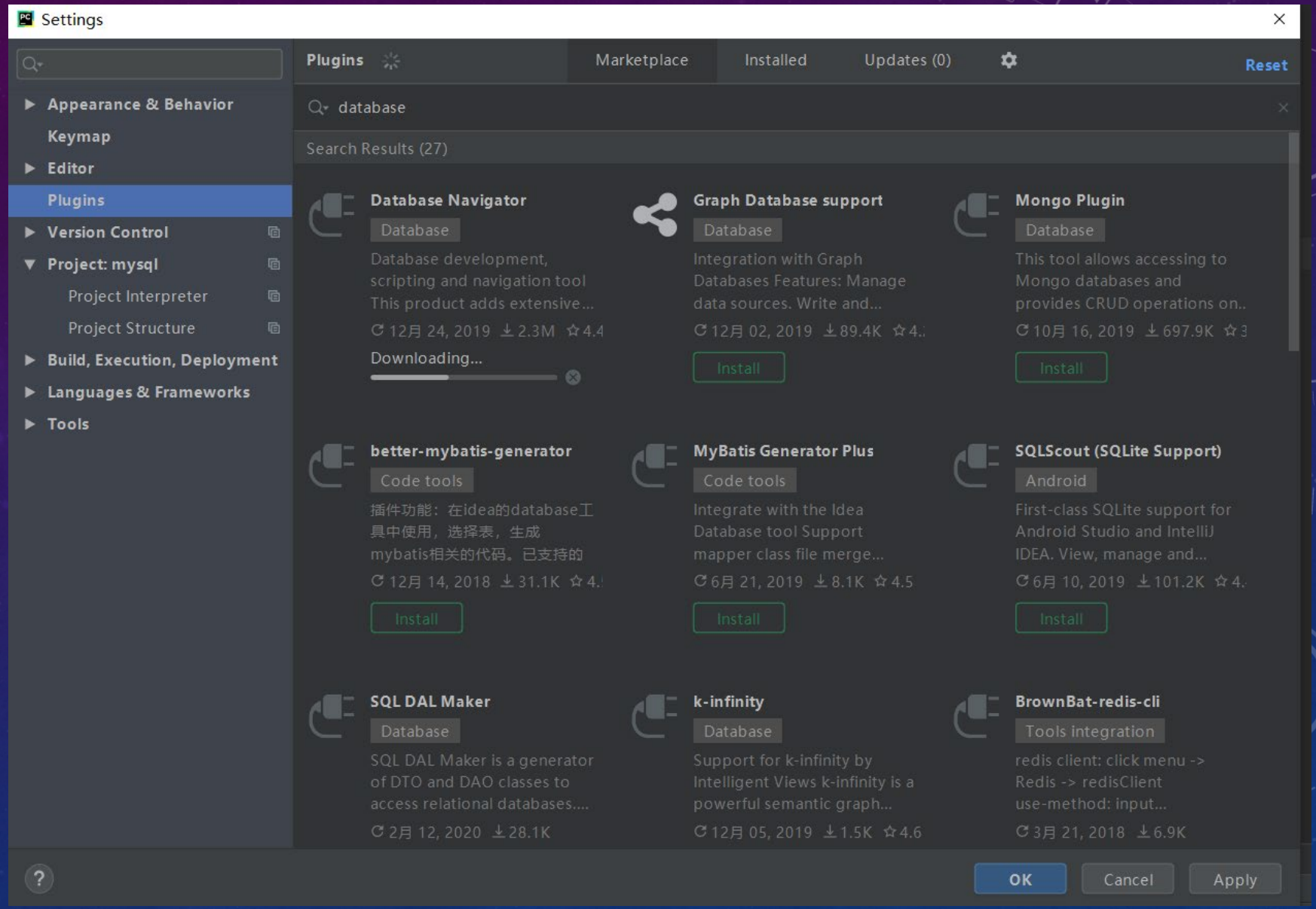
# PYCHARM

- Add reference
  - PyMySQL
    - Pip install PyMySQL

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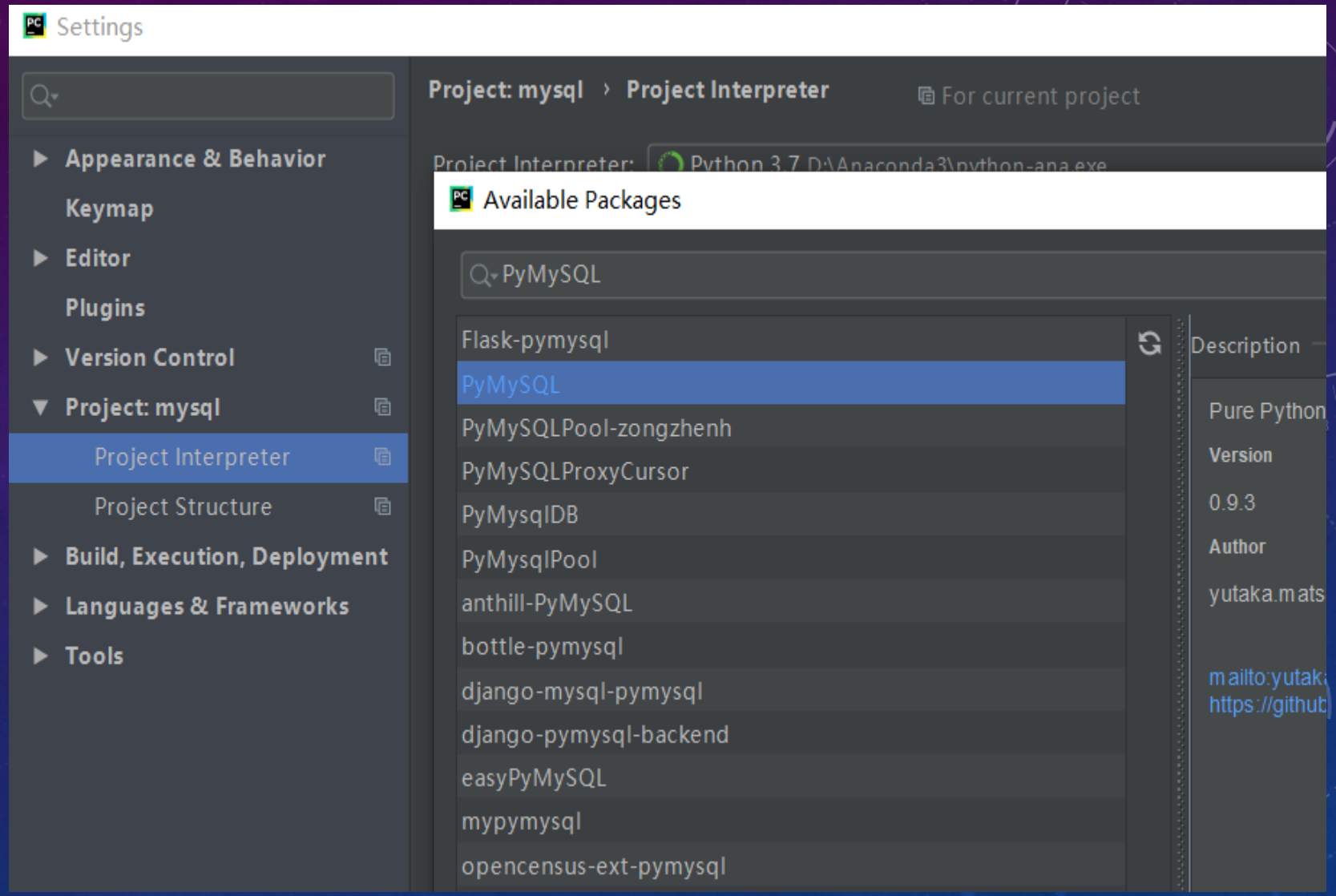
# PYCHARM

- Add reference
  - PyMySQL
    - Pip install PyMySQL

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# CONNECTION

```
import pymysql
conn=pymysql.connect(host='localhost',user='root',password='123',database='sys',charset='utf8')
cursor=conn.cursor()
sql = 'select version()'
cursor.execute(sql)
retdat = cursor.fetchall()
for row in retdat:
    print(row[0])
cursor.close()
conn.close()
```

```
Database version : 8.0.19

Process finished with exit code 0
```

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# THANKS!

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