conda info: 命令查看本机 Conda 的配置信息

```
-QD2IM9DB MINGW64
$ conda info
    active environment : base
    active env location : D:\bianchengruanjian\anaconda
           shell level : 1
       user config file : C:\Users\ZhaoXu\.condarc
populated config files : D:\bianchengruanjian\anaconda\.condarc
                          C:\Users\ZhaoXu\.condarc
          conda version : 24.9.2
   conda-build version: 24.9.0
        python version: 3.12.7.final.0
                 solver : libmamba (default)
       virtual packages : __archspec=1=skylake
                          __conda=24.9.2=0
                          __cuda=11.2=0
                           _win=0=0
       base environment : D:\bianchengruanjian\anaconda (writable)
      conda av data dir : D:\bianchengruanjian\anaconda\etc\conda
  conda av metadata url : None
           channel URLs : https://repo.anaconda.com/pkgs/main/win-64
                          https://repo.anaconda.com/pkgs/main/noarch
                          https://repo.anaconda.com/pkgs/r/win-64
                          https://repo.anaconda.com/pkgs/r/noarch
                          https://repo.anaconda.com/pkgs/msys2/win-64
                          https://repo.anaconda.com/pkgs/msys2/noarch
          package cache : D:\bianchengruanjian\anaconda\pkgs
                          C:\Users\ZhaoXu\.conda\pkgs
                          C:\Users\ZhaoXu\AppData\Local\conda\conda\pkgs
       envs directories : D:\bianchengruanjian\anaconda\envs
                          C:\Users\ZhaoXu\.conda\envs
                          C:\Users\ZhaoXu\AppData\Local\conda\conda\envs
```

conda env list: 查看已有的环境名称与路径

conda create -n prj1 python=3.12 requests : 创建 Conda 环境,里面安装 Python 3.12 和 requests

```
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~
$ conda create -n prj1 python=3.12 requests
Channels:
- defaults
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done
## Package Plan ##
environment location: D:\bianchengruanjian\anaconda\envs\prj1
```

conda create -n prj2 python=3.9 pandas statsmodels: 创建 Conda 环境,里面安装 Python 3.9 和 pandas 、statsmodels 软件包

```
(base)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~
$ conda create -n prj2 python=3.9 pandas statsmodels
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: D:\bianchengruanjian\anaconda\envs\prj2

added / updated specs:
- pandas
- python=3.9
- statsmodels
```

conda env list:

conda list: 显示 Conda 环境里的软件包列表及其版本信息

```
(base)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~
$ conda list
# packages in environment at D:\bianchengruanjian\anaconda:
                          Version
                                                     Build
                                                            Channel
                                               py312_mkl_0
_anaconda_depends
                          2024.10
                                                              defaults
                          2.12.3
                                           py312haa95532_0
                                                              defaults
aiobotocore
                                                              defaults
                          2.4.0
                                           py312haa95532_0
aiohappyeyeballs
                                           py312h827c3e9_0
                                                              defaults
aiohttp
                          3.10.5
                                              pyhd3eb1b0_0
aioitertools
                          0.7.1
                                                              defaults
aiosignal
                          1.2.0
                                              pyhd3eb1b0_0
                                                              defaults
                          0.7.16
                                           py312haa95532_0
alabaster
                                                              defaults
                          5.0.1
altair
                                           py312haa95532_0
                                                              defaults
anaconda-anon-usage
                          0.4.4
                                           py312hfc23b7f_100
                                                                defaults
                                           py312haa95532_1
anaconda-catalogs
                                                              defaults
                          0.2.0
anaconda-client
                          1.12.3
                                           py312haa95532_0
                                                              defaults
                                                              defaults
anaconda-cloud-auth
                          0.5.1
                                           py312haa95532_0
anaconda-navigator
                                           py312haa95532_0
                                                              defaults
                          2.6.3
anaconda-project
                                           py312haa95532_0
                                                              defaults
                          0.11.1
anaconda_powershell_prompt 1.1.0
                                                 haa95532_0
                                                               defaults
anaconda_prompt
                          1.1.0
                                                haa95532_0
                                                              defaults
                                           py312haa95532_0
annotated-types
                          0.6.0
                                                              defaults
                                           py312haa95532_0
anyio
                          4.2.0
                                                              defaults
```

配置 Anaconda 清华镜像,加快 conda install 安装软件包的速度,将 conda-forge 设置为默 认 Channel,让 conda install 能够安装更多的软件包

conda install polars: 下载 polars

pip install tushare: 下载 tushare

conda env export -f environment.yml: 到处 conda 环境,命名为 environment.yml

```
(prj1)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~
$ conda env export -f environment.yml
(prj1)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~
```

```
environment.yml X
 1 name: prj1
      - conda-forge
     - https://repo.anaconda.com/pkgs/r
- https://repo.anaconda.com/pkgs/msys2
      - bzip2=1.0.8=h2bbff1b 6
      - certifi=2025.1.31=pyhd8ed1ab_0
      - charset-normalizer=3.3.2=pyhd3eb1b0_0
       - xz=5.6.4=h4754444_1
        - beautifulsoup4==4.13.3
- bs4==0.0.2
         - typing-extensions==4.13.0
     prefix: D:\bianchengruanjian\anaconda\envs\prj1
pip: 后期自己下载的
删除 Conda 环境:
(prj1)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~
$ conda deactivate
(base)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~
$ conda env list
# conda environments:
                                 D:\bianchengruanjian\anaconda
base
                                 D:\bianchengruanjian\anaconda\envs\m
myenv
yenv
prj1
                                 D:\bianchengruanjian\anaconda\envs\p
rj1
prj2
                                 D:\bianchengruanjian\anaconda\envs\p
rj2
                                 D:\bianchengruanjian\anaconda\envs\p
py312_env
y312_env
```

D:\bianchengruanjian\anaconda\envs\p

\$ conda env remove -n prj1

ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~

py39_env

y39_env

(base)

```
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~
$ conda env list
# conda environments:
base
                      * D:\bianchengruanjian\anaconda
                         D:\bianchengruanjian\anaconda\envs\m
myenv
yenv
                         D:\bianchengruanjian\anaconda\envs\p
prj2
rj2
                         D:\bianchengruanjian\anaconda\envs\p
py312_env
y312_env
py39_env
                         D:\bianchengruanjian\anaconda\envs\p
y39_env
```

删除后没有 prj1

配置文件重建 Conda 环境: (将 environment.yml 移动到新文件夹内)

```
(base)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~
$ cd repo
(base)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~/repo
$ mkdir prj1
(base)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~/repo
$ cd prj1
(base)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~/repo/prj1
$ ls -l
total 0
(base)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~/repo/prj1
$ mv \/environment.yml ./
> ^C
(base)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~/repo/prj1
$ mv ~/environment.yml ./
(base)
```

conda env create: 重建 Conda 环境

```
done
  To activate this environment, use
      $ conda activate prj1
  To deactivate an active environment, use
      $ conda deactivate
(base)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~/repo/prj1
$ conda env list
# conda environments:
base
                        * D:\bianchengruanjian\anaconda
                           D:\bianchengruanjian\anaconda\envs\myenv
D:\bianchengruanjian\anaconda\envs\prj1
myenv
prj1
                           D:\bianchengruanjian\anaconda\envs\prj2
pri2
py312_env
                           D:\bianchengruanjian\anaconda\envs\py312_env
py39_env
                           D:\bianchengruanjian\anaconda\envs\py39_env
```

conda 与 python 关系:

Python 是编程语言,而 Conda 是包管理与环境管理工具(可管理 Python 及其他语言的依赖)。

Conda 通过 Anaconda/Miniconda 发行版提供,默认安装 Python 并支持多版本切换。

Conda 能安装 Python 包(如 numpy)并隔离不同项目的依赖环境(避免版本冲突)。

Conda 与 Conda-Forge 关系:

Conda 是包和环境管理工具(Anaconda/Miniconda 自带的核心工具)。

Conda-Forge 是一个社区维护的 Conda 软件包仓库,提供更全、更新的开源包(如 numpy、pandas)。

默认 Conda 优先从官方仓库(defaults)安装包,但可切换至 Conda-Forge 获取最新版本。

```
(my-project)
ZhaoXu@LAPTOP-QD2IM9DB MINGW64 ~/repo/myproject
$ python main.py
Hello, conda!
2.2.3
D:\bianchengruanjian\anaconda\envs\my-project\Lib\site-pack
ages\pandas\__init__.py
(my-project)
```