



The Global Standard for Business Research

wrds

WHARTON RESEARCH DATA SERVICES

WRDS使用培训

安徽财经大学

主要内容

1. WRDS介绍
2. WRDS平台浏览及已开通数据介绍
3. 数据检索方式及提取示范
4. WRDS科研支持
5. 联系我们

WRDS是什么?

- ✓ Wharton Research Data Services
- ✓ 宾夕法尼亚大学沃顿商学院
- ✓ 云端数据研究平台
- ✓ 600+数据库及衍生：包括Compustat、CRSP等科研常用数据库
- ✓ 多种访问形式：网页检索、Unix命令行访问、互动应用
- ✓ 增值服务：科研工具、教学工具、以及科研后备支持

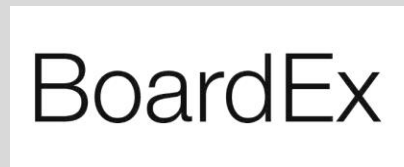
WRDS的优势

提高研究效率：帮助研究学者缩短数据搜索、分析及论文发表的所需时间

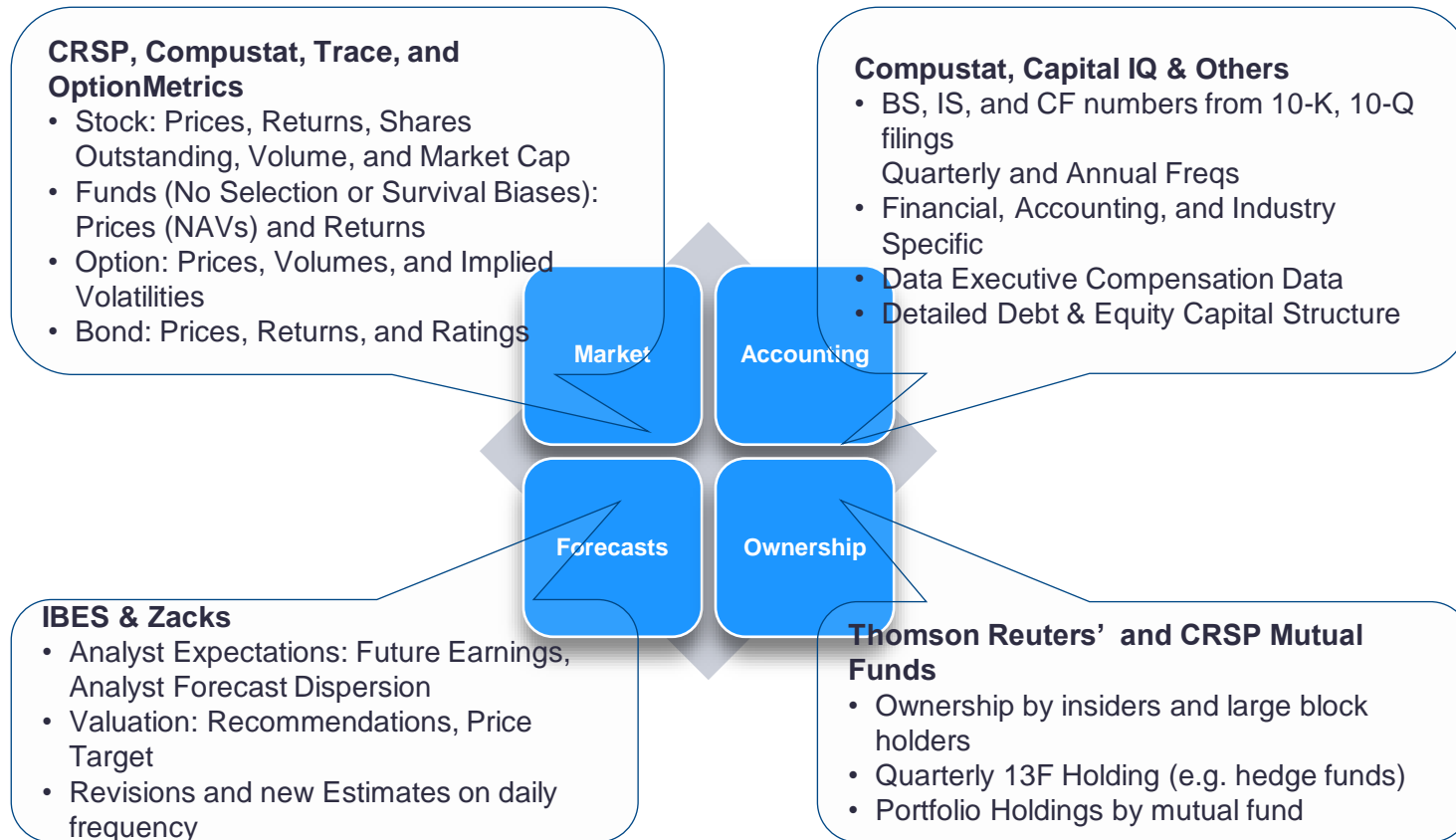
- 一站式数据商场，提供60多个数据供应商超过 250TB 的不同学术领域的的数据，涵盖会计、银行业、经济学、金融、保险、营销和统计学等多个领域，包括标普公司全球财务数据（Compustat）、芝加哥大学价格研究中心（CRSP）、路孚特/汤森路透、TAQ、国泰安等科研常用数据。
- 以互联网为基础，WRDS 提供灵活的数据下载和互动访问模式，包括：网络查询、云服务和客户端服务（PC SAS、Matlab、Stata、R 和Python 等），以实现跨数据库无缝链接和批量处理。
- 博士研究生提供科研后备支持，提供经典论文的复制性研究，及丰富的模板和范例程序套件。

WRDS数据合作商

以下为WRDS部分合作商



WRDS涵盖丰富的金融研究相关数据



更多数据请访问 [Browse Data by Concept](#)

WRDS平台浏览 & 安徽财大已开通数据介绍

注册WRDS

wrds-www.wharton.upenn.edu

The screenshot shows the WRDS website homepage. The browser's address bar is highlighted with a red box and contains the URL `wrds-www.wharton.upenn.edu`. In the top right navigation bar, the `REGISTER` link is highlighted with a red arrow. The main content area features the Wharton logo and the text "wrds WHARTON RESEARCH DATA SERVICES". Below this is a large "wrds" logo and the tagline "The Global Standard for Business Research". A login form with fields for "Username" and "Password" and a "Login" button is visible. On the right, there is a "Research Analytics at WRDS" section with icons for "RESEARCH APPLICATIONS", "CLOUD COMPUTING", "TUTORIALS", and "CLASSROOM BY WRDS". A video player is also present at the bottom right of this section.

注册WRDS Register for WRDS

提交申请后将由
WRDS管理员审批
您的请求，并在审
批通过后邮件告知。

Username

Please choose a username.

Required. 4 to 15 characters long. Lowercase letters and digits only. Must start with a letter.

Password

Please choose a password.

- Your password must contain at least 12 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.
- Passwords may contain ASCII letters, numbers, spaces, and punctuation characters: `~!@#%&*()-=_+[]\|:;'",./<>?

Password confirmation

Please choose a password.

Enter the same password as before, for verification.

First name

Last name

Email address

Please enter your institutional email address.

Subscriber

User type

The account type of this user.

Expiration date

Department

WRDS主页面

Wharton UNIVERSITY OF PENNSYLVANIA wrds WHARTON RESEARCH DATA SERVICE

Search WRDS

Get Data Analytics Classroom Research DART Support

Home

主要功能

Subscriptions

Data Dashboard >>

» 2iQ	2	» Historical SPDJI	2	» RavenPack	16
» American Hospital As...	9	» IBES	113	» RepRisk	14
» Audit Analytics	48	» IHS Global Insight	2	» Research Quotient	1
» B Impact Assessment	2	» IMS – SK&A	4	» SEC Order Execution	1
» Bank Regulatory	12	» Infogroup	2	» Sustainalytics	10
» Blockholders	1	» IRI	1	» TAQ	7
» BoardEx	68	» Levin Associates	1	» Thomson/Refinitiv	61
» Bureau van Dijk	40	» ISS: Institutional Shar...	38	» Toyo Keizai	12
» Calcbench	28	» ISSM	2	» TRACE	24
» CBOE Indexes	1	» ktMINE	4	» Zacks Investment Res...	12

WRDS News

- 21 JUL Do PAC donations from influential shareholders impact corporate decision-making? July 21st, 2021
- 12 JUL Wall Street Journal highlights WRDS as stock analysis resource July 12th, 2021
- 22 JUN International Business Magazine highlights 25 years of WRDS June 22nd, 2021

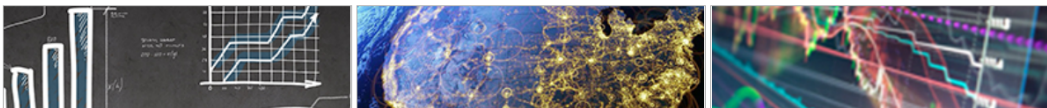
在“Subscriptions”中查看已开通数据；未开通数据显示为灰色

Events

- 25 AUG European Finance Association conference Milan, Italy
- 07 SEP EAIE

Analytics by WRDS

All Topics >>



公开数据库

以下数据库为WRDS免费提供。具体内容请从WRDS主页面Subscriptions中查看。

Bank Regulatory Database	IRI Marketing Factbook
Blockholders	Penn World Tables
CBOE Indexes	Philadelphia Stock Exchange
DMEF	SEC Disclosure of Order Execution
Dow Jones	TRACE
Fama-French Portfolios and Factors	MSRB
FDIC Database Files	OTC Markets
Federal Reserve Bank Reports	Federal Judicial Center

安徽财经大学 – 其他已订阅数据库

以下数据库可通过WRDS平台获取：

标普全球 S&P Compustat (详细资料可参考标普培训材料)

- 全面的财务数据库，收录公司的营运及财务状况信息。数据库覆盖130个国家，超过104,000个上市/退市公司；超过130,000个证券，几乎涵盖超过99%的市值。财务数据回溯到1950年。
- 数据包：North America, Global, Bank, Segments

BvD系列数据库

- Bank Focus：详细提供了全球40,000多家主要银行及世界重要金融机构与组织的经营与信用分析数据。
- Osiris：涵盖全球上市公司、主要非上市公司/摘牌公司长达30年的记录和详细信息。

数据检索方式及提取示范

1. [网页检索](#)
2. [使用其他方式连接到WRDS云服务器](#)

网页检索：最简便的检索方式



WRDS



网络

The screenshot displays the Wharton WRDS website interface. The header includes the Wharton University of Pennsylvania logo, the text 'wrds WHARTON RESEARCH DATA SERVICES', and a search bar. Navigation links for 'Home', 'Get Data', 'Analytics', 'Classroom', 'Research', and 'Support' are visible. The main content area is divided into several sections:

- Subscriptions:** A list of services including WRDS Internal, 2iQ, American Hospital Association, AuditAnalytics, B Impact Assessment, Bank Regulatory, Beta Suite by WRDS, Blockholders, BoardEx, Fama French & Liquidity Factors, Federal Judicial Center, Federal Reserve Bank, Financial Ratios Suite by WRDS, FTSE/Russell, GovPX, GSIOnline, Healthbase, Hedge Fund Research, Option Metrics, Option Suite by WRDS, OTC Markets, PACAP, Penn World Tables, Peters and Taylor Total Q, PHLX, Preqin, and ProPublica.
- Data Dashboard & WRDS News:** A section with a 'Data Dashboard' link and a list of news items with dates (e.g., 21 JAN, 14 JAN, 02 DEC) and titles like 'Are healthcare wraparound services effective in reducing costly hospital ...' and 'What is the Impact of Machine Learning on Mortgage ...'.
- Events:** A section with a date and title for 'ICAL (International Conference of Asian Libraries)' on FEB 26 and 'SOUACBL (Southern University and College Academic Business Librarians Conference)' on MAR 11.
- Analytics by WRDS:** A section with three featured articles: 'SEC Analytics Suite' (Investigate abnormal stock returns/volumes around event dates), 'U.S. Daily Event Study' (Investigate abnormal stock returns/volumes around event dates), and 'Intraday Indicators' (Stock specific daily and intraday (5 min, 15 min and 30 min) indicators).

网页检索 – Compustat示例

通过网页检索从Compustat数据库中提取IBM和Amazon公司2010至2020年十年中季度报表中的以下科目：Total Assets、Total Liabilities、Total Equity、Net Income

登陆WRDS Homepage → Compustat – Capital IQ → Compustat/ North America – Daily → Fundamentals Quarterly

第一步: 设置时间范围为2010年1月至2020年12月。

第二步: 找到IBM和Amazon公司的识别码。

第三步: 选中变量Total Assets, Total Liabilities, Total Equity和Net Income。

第四步: 选择结果呈现形式。

网页检索 – Compustat示例

[Home](#) / [Get Data](#) / [Compustat - Capital IQ](#)

Compustat - Capital IQ

S&P Global Market Intelligence Data Through Wharton Research Data Services

Compustat

Compustat

» North America - Daily

18

» Bank - Daily

2

» Snapshot

7

» Global - Daily

5

» Historical Segments - Daily

2

» Execucomp

9

Capital IQ

Capital IQ

» Transactions

12

» Capital Structure

3

» Key Developments

1

» S&P Credit Ratings

4

» Transcripts

2

» Identifiers

1

» People Intelligence

3

S&P Global

Market Intelligence

[More About This Vendor >>](#)

Knowledge Base

» Compustat Index Constituents Removed

» North America

» Global

Manuals and Overviews

» Compustat Online Manual

» WRDS Overview of Compustat North America - Global - Bank

» Execucomp

Additional Tools

网页检索 – Compustat示例

North America - Daily

North America - Daily

Compustat North America is a database of U.S. and Canadian fundamental and market information on active and inactive publicly held companies. It provides more than 300 annual and 100 quarterly Income Statement, Balance Sheet, Statement of Cash Flows, and supplemental data items. For most companies, annual history is available back to 1950 and quarterly history back to 1962 with monthly market history back to 1962.

Compustat North America files also contain information on aggregates, industry segments, banks, market prices, dividends, and earnings.

» Fundamentals Annual

» Fundamentals Quarterly

» Index Constituents

» Index Fundamentals

» Index Prices

» Industry Specific Annual

» Industry Specific Quarterly

» Pension Annual

» Pension Quarterly

» Ratings

» Security Daily

» Security Monthly

S&P Global

Market Intelligence

[More About This Vendor >>](#)

Knowledge Base

» [Compustat Index Constituents Removed](#)

» [North America](#)

» [Global](#)

Manuals and Overviews

» [Compustat Online Manual](#)

» [WRDS Overview of Compustat North America - Global - Bank](#)

» [Execucomp](#)

Additional Tools



网页检索 – Compustat示例

Compustat - Capital IQ

North America - Daily

Fundamentals Annual

Fundamentals Quarterly

Index Constituents

Index Fundamentals

Index Prices

Industry Specific Annual

Industry Specific Quarterly

Pension Annual

Pension Quarterly

Ratings

Security Daily

Security Monthly

Query Form

Variable Descriptions

Manuals and Overviews

FAQs

Dataset List

Compustat | 指标/标量 | 用户手册/指南 | 常见问题 | 数据列表

[alert](#)

[documentation](#)

Step 1: Choose your date range.

[FormStep1](#)

Date Variable:

Data Date

Date range

2010-01

to

2021-03

Step 2: Apply your company codes.

[FormStep2](#)

TIC GVKEY CUSIP SIC NAICS CIK GIC Sub-Industry

Select an option for entering company codes

Company Codes

Code List Name

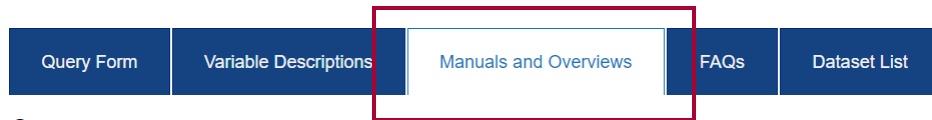
Please enter Company codes separated by a space.

Example: IBM MSFT DELL [[Code Lookup](#)]

[company_codes](#)

Save code list to Saved Codes

网页检索 – Compustat示例



Compustat

Compustat Manuals and Overviews

North America - Global - Bank

📄 Compustat Online Manual

» WRDS Overview of Compustat North America - Global - Bank

📄 Balancing Model - Compustat Bank

📄 Understanding the Data

More North America - Global - Bank resources ↕

Execucomp

📄 ExecuComp Company Names

» Input for BlackScholes Calculations

» Modified Black-Scholes Option Valuation Methodology

» ExecuComp Table Descriptions

More Execucomp resources ↕

Capital IQ

📄 Capital IQ Professional Data

» Financials

📄 Understanding the Data - Capital Structure

📄 Capital IQ on WRDS FAQ

More Capital IQ resources ↕

Segments

» WRDS Overview of Compustat Segments Data

📄 Segment Info

📄 Compustat Segments Knowledgebase Articles

SNL

» FIG

» Bank Regulatory

Backtest

» WRDS Overview of Preliminary, Unrestated, and Point-in-Time Datasets

“Manuals and Overviews” 中提供了关于Compustat数据库的详细介绍

网页检索 – Compustat示例 Step1

Query Form	Variable Descriptions	Manuals and Overviews	FAQs	Dataset List
------------	-----------------------	-----------------------	------	--------------

Compustat Daily Updates - Fundamentals Quarterly

 alert

 documentation

Step 1: Choose your date range.

 FormStep1

Date Variable:

Date range

2010-01	to	2021-03
---------	----	---------

选择时间范围

网页检索 – Compustat示例 Step2

选择TIC作为识别码

Step 2: Apply your company codes.

[FormStep2](#)

- TIC GVKEY CUSIP SIC NAICS CIK GIC Sub-Industry

Select an option for entering company codes

- IBM AMZN

Please enter Company codes separated by a space.

Example: IBM MSFT DELL [[Code Lookup](#)]

[company_codes](#)

- No file selected

Upload a plain text file (.txt), having one code per line.

- Select Saved Codelists-----

Choose from your saved codelists.

- Search the entire database

This method allows you to search the entire database of records. Please be aware that this method can take a very long time to run because it is dependent upon the size of the database.

填写IBM和Amazon公司的TIC代码

可以使用“Code Lookup”功能查找公司代码

Compustat Daily Updates - Fundamentals Quarterly Code Lookup

Amazon

The Company Code Lookup Tool is designed to find all identifiers associated with a specific company. This tool can retrieve identifiers for multiple companies, then add the codes directly to your query. You can also use this tool to save and download codes for future queries. Downloaded codes are saved in the text (.txt) file format.

1. Start by entering a company name (or part of the name) into the search box above.
2. After the results are displayed, make your selections and chose an identifier.
3. Next, refine your list of codes or add more.
4. Last, choose whether to insert your selections into your web query or to download them as a text file for later use.

Need more help?

Take a moment to [read the full step-by-step instructions](#) to using this tool, including a [complete list of identifiers available](#).

1 results found that start with "Amazon"

<input type="checkbox"/>	ENTITY_NAME	TICKER	CUSIP_FULL	CIK	SIC	GVKEY	FIRST_DATE	LAST_DATE
<input checked="" type="checkbox"/>	AMAZON.COM INC.	AMZN	023135106	0001018724	5961	064768	1995	2018

[Export all results as a spreadsheet](#)

Select Your Identifier

TICKER CUSIP_FULL CIK SIC GVKEY

网页检索 – Compustat示例 Step3

Step 3: Choose variable types.

FormStep3

Select Variable Types

Select the items you would like to include in your search.

Select All (2) Selected Clear All (1)

- Footnotes
- Data Items
- Data Codes

选中需要查看的变量

How does this work?

Search All 6/674
Identifying Information 27
Identifying Information, cont. 0/34
Company Desc >>

Select All Selected Clear All (6)

- CUSIP
- CIK Number
- Stock Exchange Code
- Fiscal Year-End
- Foreign Incorporation Code
- ADD1 -- Address Line 1
- ADD2 -- Address Line 2
- ADD3 -- Address Line 3
- ADD4 -- Address Line 4
- ADDZIP -- Postal Code
- BUSDESC -- S&P Business Description

- Ticker Symbol
- Company Name
- ATQ -- Assets - Total
- LTQ -- Liabilities - Total
- TEQQ -- Stockholders Equity - Total
- NIQ -- Net Income (Loss)

https://wrds-web.wharton.upenn.edu/wrds/query_forms/variable_documentatio...
点击问号可查看变量具体含义和信息

The green tab is what the user sees.

File Library **Vendor**

The variable documentation shown is globally set for all variables named: exchg, within the vendor: COMP.
[Edit Vendor's Variable Doc \[COMP>exchg\]](#) [Delete Vendor's Variable Doc \[COMP>exchg\]](#)

Only what is below this line is visible to the user:

Stock Exchange Code
Variable Name = EXCHG

This item identifies the major exchange on which the company's Common/Ordinary Stock (Capital) is traded. Below are some of the common exchange codes. A complete list is available in the Compustat manual.

Code	Description	Exchange Country
0	Subsidiary/Private	Canada
0	Subsidiary/Private	United States
1	Non-traded Company or Security	Canada
1	Non-traded Company or Security	Germany
1	Non-traded Company or Security	Switzerland
1	Non-traded Company or Security	Taiwan
1	Non-traded Company or Security	United States
2	Consolidated Parent or Tracking Stock Company	United States

网页检索 – Compustat示例 Step3

Step3中可做筛选条件

如有需要，可设置筛选条件

Conditional Statements (Optional)

How does this work?

The screenshot shows the 'Conditional Statements (Optional)' interface. At the top, there are two radio buttons for 'AND' and 'OR'. To the right are three buttons: 'Remove Conditional Statement Builder' (red), '+ Add rule' (green), and '+ Add group' (green). Below these is a single rule entry consisting of a dropdown menu with a double-headed arrow icon and a 'Delete' button (red). At the bottom, a 'Query Preview' section displays the message: '* Please complete your conditional statement to see the preview *'.

网页检索 – Compustat示例 Step4

Step 4: Select query output.

[FormStep4](#)

Select the desired [format](#) of the output file. For large data requests, select a compression type to expedite downloads. If you enter your email address, you will receive an email that contains a URL to the output file when the data request is finished processing.

Output Format

- fixed-width text (*.txt)
- comma-delimited text (*.csv)
- Excel spreadsheet (*.xlsx)
- tab-delimited text (*.txt)
- HTML table (*.htm)
-
- SAS Windows_32 dataset (*.sas7bdat)
-
- SAS Windows_64 dataset (*.sas7bdat)
- SAS Solaris_64 dataset (*.sas7bdat)
- dBase file (*.dbf)
- STATA v14+ file (*.dta)
- SPSS file (*.sav)

Compression Type

- None
- zip (*.zip)
- gzip (*.gz)

Date Format

- YYMMDDn8. (e.g. 19840725)
- DATE9. (e.g. 25JUL1984)
- DDDMMYY6. (e.g. 250784)
- MMDDYY10. (e.g. 07/25/1984)
- DDDMMYY10. (e.g. 25/07/1984)
- YYMMDDs10. (e.g. 1984/07/25)

选择结果呈现形式

E-Mail Address *(Optional)*

Custom Field *(Optional)*

Save this query to myWRDS

Please note: if you select wrds-sol1-dev as the Processing Server, you may only choose wrds-sas1-dev-h, wrds-data, or wrds-lore as the SAS Server. To pick as production SAS node, you must pick a production process server (sol1 or sol2).

Debugging Options

Processing Server

SAS Server

Submit Query

点击“Submit Query”

网页检索 – Compustat示例 结果

Home / Your Account / Queries / Query 3849949, for comp_na_daily_all

Open In: [Django Admin](#) | [API](#)

Query 3849949, for comp_na_daily_all

Submitter:	xiazhan (Erica Zhang, xiazhan@wharton.upenn.edu) (wrds)						
Status:	Success						
Product:	comp_na_daily_all						
Results:	<table><tr><td>Result Size: 13 KiB</td><td>Result Count: 88 Rows</td></tr><tr><td colspan="2">Output Files:<ul style="list-style-type: none">/output/wrds/xiazhan/pes7m5zycrceuryi.xlsx</td></tr><tr><td colspan="2">Service Files [admin only]:<ul style="list-style-type: none">/var/query-manager/tmp/wrds/xiazhan/xiazhan_pes7m5zycrceuryi_sas.log/var/query-manager/tmp/wrds/xiazhan/xiazhan_pes7m5zycrceuryi_grid.log</td></tr></table>	Result Size: 13 KiB	Result Count: 88 Rows	Output Files: <ul style="list-style-type: none">/output/wrds/xiazhan/pes7m5zycrceuryi.xlsx		Service Files [admin only]: <ul style="list-style-type: none">/var/query-manager/tmp/wrds/xiazhan/xiazhan_pes7m5zycrceuryi_sas.log/var/query-manager/tmp/wrds/xiazhan/xiazhan_pes7m5zycrceuryi_grid.log	
Result Size: 13 KiB	Result Count: 88 Rows						
Output Files: <ul style="list-style-type: none">/output/wrds/xiazhan/pes7m5zycrceuryi.xlsx							
Service Files [admin only]: <ul style="list-style-type: none">/var/query-manager/tmp/wrds/xiazhan/xiazhan_pes7m5zycrceuryi_sas.log/var/query-manager/tmp/wrds/xiazhan/xiazhan_pes7m5zycrceuryi_grid.log							
Timing:	<table><tr><td>Elapsed Time:</td><td>Submitted: 2021-03-10 00:53</td></tr><tr><td>Work Begun: 2021-03-10 00:53</td><td>Work Finished: 2021-03-10 00:53</td></tr></table>	Elapsed Time:	Submitted: 2021-03-10 00:53	Work Begun: 2021-03-10 00:53	Work Finished: 2021-03-10 00:53		
Elapsed Time:	Submitted: 2021-03-10 00:53						
Work Begun: 2021-03-10 00:53	Work Finished: 2021-03-10 00:53						
Input Parameters:	Toggle Input Parameters						

Data Retention

Results data will be accessible for 2 days, until 2021-03-12, 00:53

Notice

Your use of WRDS and this data extract must comply with the [WRDS Terms of Use](#).

There may be additional usage restrictions that are governed by your institution's licensing of specific databases. If you have any questions about data licensing and appropriate usage, please contact WRDS using the [Support form](#).

Citation instructions

To cite this data use the following format:

Wharton Research Data Services. "WRDS" wrds.wharton.upenn.edu, accessed 2021-03-10.

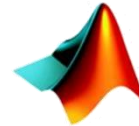
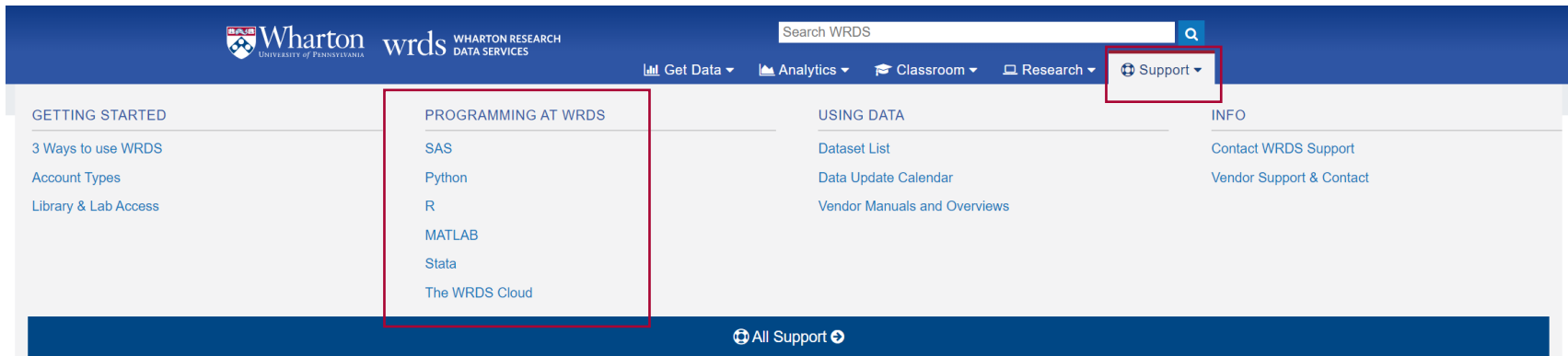
网页检索 – Compustat示例 结果

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Global Company Key	Data Date	Fiscal Year	Fiscal Quarter	Industry Format	Level of Consolidation - Company Interim Descriptor	Population Source	Data Format	Ticker Symbol	Company Name	ISO Currency Code	Calendar Data Year and Quarter	Fiscal Data Year and Quarter	Assets - Total	Liabilities - Total	Net Income (Loss)	Stockholders Equity - Total	Active/Inactive Status Marker
1	006066	3/31/2010	2010	1	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2010Q1	2010Q1	105208	83059	2601	22149	A	
2	006066	6/30/2010	2010	2	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2010Q2	2010Q2	103420	82244	3386	21176	A	
3	006066	9/30/2010	2010	3	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2010Q3	2010Q3	107174	84815	3589	22359	A	
4	006066	12/31/2010	2010	4	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2010Q4	2010Q4	113452	90280	5257	23172	A	
5	006066	3/31/2011	2011	1	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2011Q1	2011Q1	112960	90184	2863	22776	A	
6	006066	6/30/2011	2011	2	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2011Q2	2011Q2	113474	90264	3663	23210	A	
7	006066	9/30/2011	2011	3	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2011Q3	2011Q3	110158	87780	3839	22378	A	
8	006066	12/31/2011	2011	4	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2011Q4	2011Q4	116433	96197	5490	20236	A	
9	006066	3/31/2012	2012	1	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2012Q1	2012Q1	115346	94563	3066	20783	A	
10	006066	6/30/2012	2012	2	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2012Q2	2012Q2	113832	93269	3882	20563	A	
11	006066	9/30/2012	2012	3	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2012Q3	2012Q3	115778	94112	3823	21666	A	
12	006066	12/31/2012	2012	4	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2012Q4	2012Q4	119213	100229	5833	18984	A	
13	006066	3/31/2013	2013	1	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2013Q1	2013Q1	117258	98044	3032	19214	A	
14	006066	6/30/2013	2013	2	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2013Q2	2013Q2	115153	97270	3226	17883	A	
15	006066	9/30/2013	2013	3	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2013Q3	2013Q3	117845	97837	4041	20008	A	
16	006066	12/31/2013	2013	4	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2013Q4	2013Q4	126223	103294	6184	22929	A	
17	006066	3/31/2014	2014	1	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2014Q1	2014Q1	122646	105906	2384	16740	A	
18	006066	6/30/2014	2014	2	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2014Q2	2014Q2	124314	106801	4137	17513	A	
19	006066	9/30/2014	2014	3	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2014Q3	2014Q3	118911	104516	18	14395	A	
20	006066	12/31/2014	2014	4	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2014Q4	2014Q4	117532	105518	5483	12014	A	
21	006066	3/31/2015	2015	1	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2015Q1	2015Q1	112037	99748	2328	12289	A	
22	006066	6/30/2015	2015	2	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2015Q2	2015Q2	112729	98892	3449	13837	A	
23	006066	9/30/2015	2015	3	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2015Q3	2015Q3	108648	95198	2950	13450	A	
24	006066	12/31/2015	2015	4	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2015Q4	2015Q4	110495	96071	4463	14424	A	
25	006066	3/31/2016	2016	1	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2016Q1	2016Q1	118856	103784	2014	15072	A	
26	006066	6/30/2016	2016	2	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2016Q2	2016Q2	118056	102167	2504	15889	A	
27	006066	9/30/2016	2016	3	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2016Q3	2016Q3	115606	98447	2853	17159	A	
28	006066	12/31/2016	2016	4	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2016Q4	2016Q4	117470	99078	4501	18392	A	
29	006066	3/31/2017	2017	1	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2017Q1	2017Q1	117495	99047	1750	18448	A	
30	006066	6/30/2017	2017	2	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2017Q2	2017Q2	120495	101951	2332	18544	A	
31	006066	9/30/2017	2017	3	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2017Q3	2017Q3	121636	101879	2725	19757	A	
32	006066	12/31/2017	2017	4	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2017Q4	2017Q4	125356	107631	-1054	17725	A	
33	006066	3/31/2018	2018	1	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2018Q1	2018Q1	125285	106995	1679	18290	A	
34	006066	6/30/2018	2018	2	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2018Q2	2018Q2	121622	102974	2404	18648	A	
35	006066	9/30/2018	2018	3	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2018Q3	2018Q3	121990	102072	2694	19918	A	
36	006066	12/31/2018	2018	4	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2018Q4	2018Q4	123382	106453	1951	16929	A	
37	006066	3/31/2019	2019	1	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2019Q1	2019Q1	130926	114320	1591	16606	A	
38	006066	6/30/2019	2019	2	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2019Q2	2019Q2	154652	136876	2498	17776	A	
39	006066	9/30/2019	2019	3	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2019Q3	2019Q3	149620	131524	1672	18096	A	
40	006066	12/31/2019	2019	4	INDL C	D	STD	IBM	INTL BUSINESS MACHINES CORP	USD	2019Q4	2019Q4	153426	134324	2672	20205	A	

Compustat数据格式

使用其他方式连接到WRDS云服务器

详细操作步骤请访问Support → [Programming at WRDS](#)



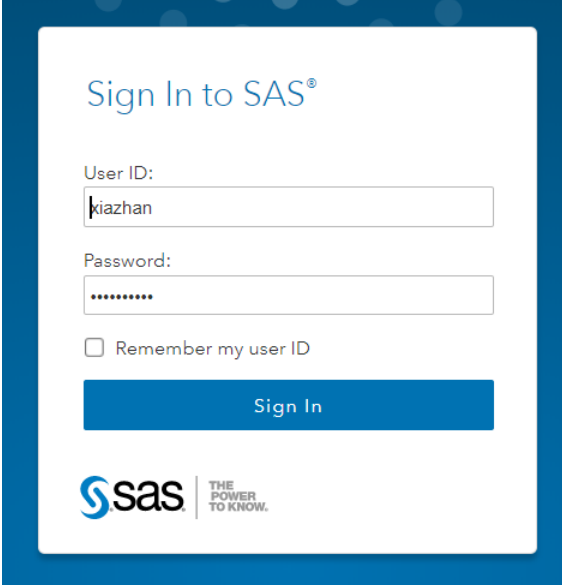
MATLAB



SAS Studio

- 无需购买安装PC-SAS也可以实现WRDS的互动式程序设计和检索
- 硬件需求：任何配备全面功能浏览器的设备（PC、MAC、Ipad）

点击[此处](#)打开SAS Studio
输入WRDS用户名和密码



Sign In to SAS®

User ID:
kiazhan

Password:
.....

Remember my user ID

Sign In

sas | THE POWER TO KNOW.

WRDS科研支持

1. WRDS Analytics
2. WRDS Classroom
3. WRDS Research

WRDS科研工具 ([WRDS Analytics](#))

Wharton wrds WHARTON RESEARCH DATA SERVICES

Search WRDS

Get Data Analytics Classroom Research Support

ANALYTICS by wrds

WRDS has developed a variety of powerful analytics tools to support you in your research. Get more out of your data with less effort.

FEATURED TOOLS:

- Bag of Words
- Factors by WRDS

Grid View List View

All Topics Efficient Frontier Event Study Financial Ratios Other Research Tools Programming Tools SEC

U.S. Daily Event Study

Investigate abnormal stock returns/volumes around event dates by uploading your own "events" file, or analyzing reaction to firm-specific events from Capital IQ's Key Development database.

- Instant visualization of the effect of events on U.S. equities
- Output includes statistics, plots

More >

SEC Filings Search

Use this powerful research platform to search the contents of the most commonly used SEC filings—over 3.4 million reports—filed by more than 94 thousand companies.

- Easy-to-use web queries
- Daily updates
- Links to original HTML and text filings

More >

Intraday Indicators

Stock specific daily and intraday (5 min, 15 min and 30 min) indicators created from the TAQ intraday dataset.

- Stock specific daily and intraday (5 min, 15 min and 30 min) indicators.
- Requires subscription to TAQ dataset.

More >

Financial Ratios: Firm Level

With the Financial Ratios: Firm Level tool you can access over 70 pre-calculated financial ratios for all U.S. companies across eight different categories.

- Calculates ratios most commonly used in accounting and finance research
- Monthly time series of financial ratios per company

More >

- Event Studies
- Intra-day Indicators
- Financial Ratios
- Bond Returns
- Beta Suite
- SEC Filings
- Linking Suite
- And etc...

WRDS教学工具 (WRDS Classroom)

The screenshot shows the WRDS Classroom website. At the top, there is a navigation bar with the Wharton University of Pennsylvania logo, the text 'wrds WHARTON RESEARCH DATA SERVICES', a search bar labeled 'Search WRDS', and menu items for 'Get Data', 'Analytics', 'Classroom', 'Research', and 'Support'. The 'Classroom' menu item is highlighted with a red box and a red arrow pointing to the main content area. The main content area features a large banner for 'Classroom Tools by wrds' with a sub-header 'Classroom Tools by wrds' and a description: 'Classroom Tools by WRDS is a teaching and learning toolkit designed specifically for faculty who are introducing finance and business concepts in the classroom.' Below the banner are two featured tool cards: 'Introduction to Topic Modeling' and 'Using the CRSP/Compustat Merged (CCM) Database'. At the bottom of the main content area, there is a navigation bar with tabs for 'All Topics', 'Accounting', 'Fixed Income', 'Introduction to WRDS', 'Investments', 'Macroeconomics', 'SEC', and 'Text Analytics'. Below the navigation bar are four topic cards, each with a title, a brief description, and a list of bullet points. Each card has a 'More >>' link at the bottom.

Getting Started
This teaching tool guides your students through their first use of the WRDS website. With it, you can:

- Introduce new users to WRDS
- Provide an overview of how queries are organized
- Demonstrate a sample query to retrieve pricing data

What Data is in WRDS?
Learn about WRDS' data offerings and how to navigate them effectively. Acquaint students with the breadth of data sets in WRDS, including:

- Financial
- Economic
- Marketing
- Public

Finding the Data You Want
WRDS contains a tremendous variety of data. This exercise covers the following:

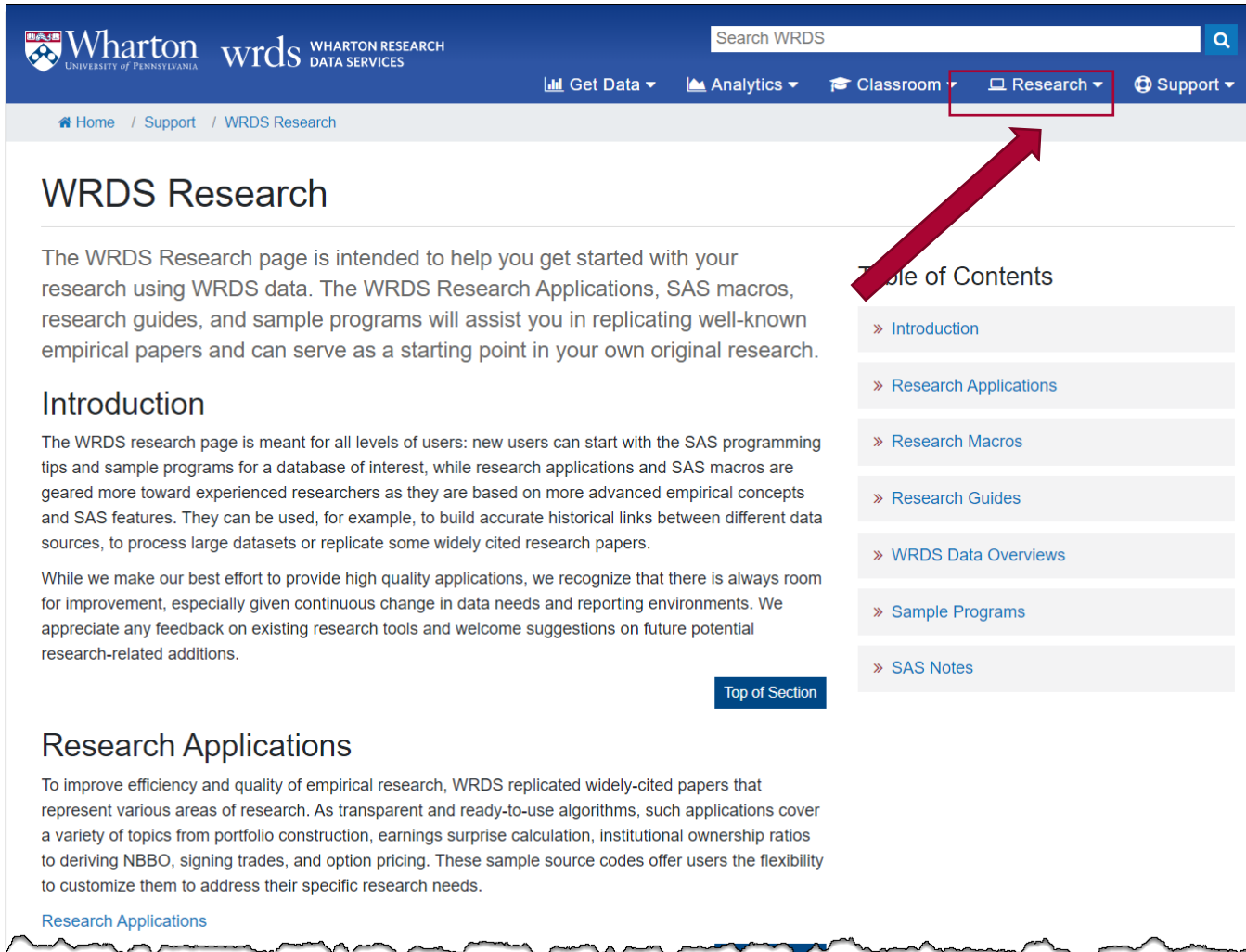
- How data is categorized
- Techniques to locate data
- Resources that index WRDS' data

Understanding Identifiers
This exercise describes the major descriptors used to identify both companies and securities in WRDS, along with examples of each. Students will be introduced to the following:

- Difference between header and historical identifiers
- Issues vs. companies
- Dates of applicability

- Introduction to WRDS
- Introduction to Financial Statements
- Time Value of Money
- Using the CRSP/Compustat Merged (CCM)
- SAS Studio
- And etc...

WRDS科研 (WRDS Research)



The screenshot shows the WRDS Research page. At the top, there is a navigation bar with the Wharton logo, the text 'wrds WHARTON RESEARCH DATA SERVICES', a search bar labeled 'Search WRDS', and several menu items: 'Get Data', 'Analytics', 'Classroom', 'Research', and 'Support'. The 'Research' menu item is highlighted with a red box, and a red arrow points from the 'WRDS Research' section header to it. Below the navigation bar, the page title 'WRDS Research' is displayed. The main content area includes an introductory paragraph, an 'Introduction' section with two paragraphs, a 'Top of Section' button, a 'Research Applications' section with a paragraph, and a link to 'Research Applications' at the bottom. On the right side, there is a 'Table of Contents' section with a list of links: 'Introduction', 'Research Applications', 'Research Macros', 'Research Guides', 'WRDS Data Overviews', 'Sample Programs', and 'SAS Notes'.

Wharton wrds WHARTON RESEARCH DATA SERVICES

Search WRDS

Get Data Analytics Classroom **Research** Support

Home / Support / WRDS Research

WRDS Research

The WRDS Research page is intended to help you get started with your research using WRDS data. The WRDS Research Applications, SAS macros, research guides, and sample programs will assist you in replicating well-known empirical papers and can serve as a starting point in your own original research.

Introduction

The WRDS research page is meant for all levels of users: new users can start with the SAS programming tips and sample programs for a database of interest, while research applications and SAS macros are geared more toward experienced researchers as they are based on more advanced empirical concepts and SAS features. They can be used, for example, to build accurate historical links between different data sources, to process large datasets or replicate some widely cited research papers.

While we make our best effort to provide high quality applications, we recognize that there is always room for improvement, especially given continuous change in data needs and reporting environments. We appreciate any feedback on existing research tools and welcome suggestions on future potential research-related additions.

[Top of Section](#)

Research Applications

To improve efficiency and quality of empirical research, WRDS replicated widely-cited papers that represent various areas of research. As transparent and ready-to-use algorithms, such applications cover a variety of topics from portfolio construction, earnings surprise calculation, institutional ownership ratios to deriving NBBO, signing trades, and option pricing. These sample source codes offer users the flexibility to customize them to address their specific research needs.

[Research Applications](#)

Table of Contents

- » [Introduction](#)
- » [Research Applications](#)
- » [Research Macros](#)
- » [Research Guides](#)
- » [WRDS Data Overviews](#)
- » [Sample Programs](#)
- » [SAS Notes](#)

WRDS支持

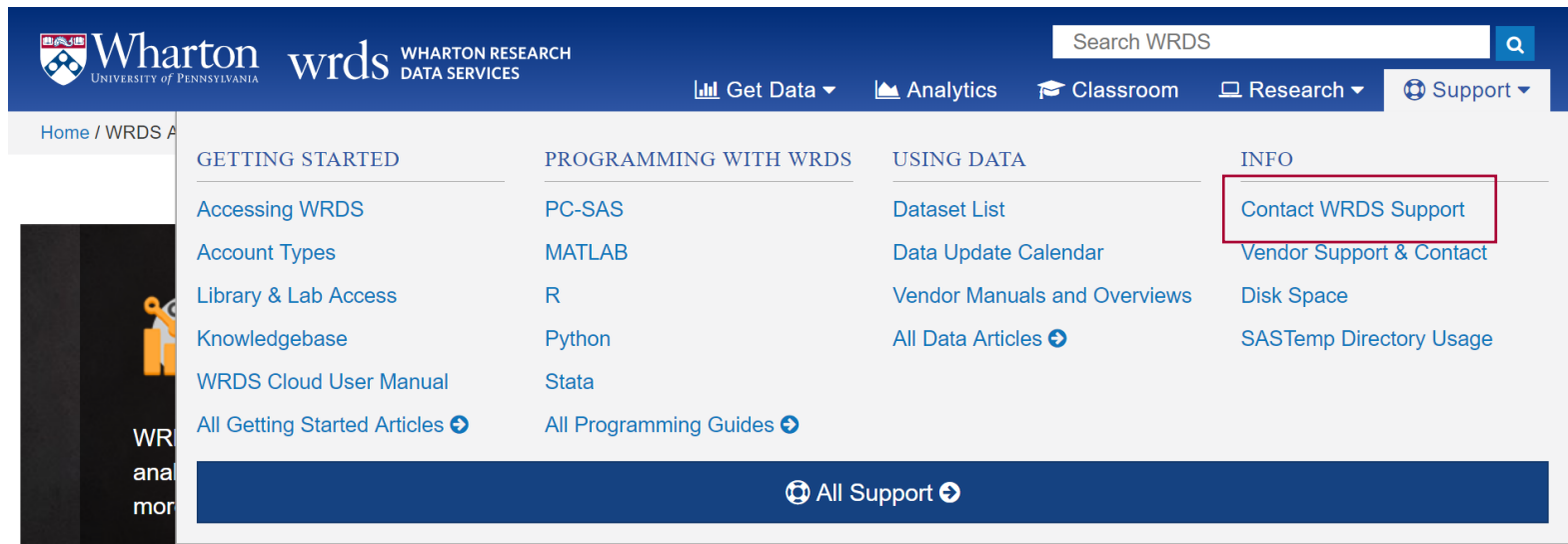
• 在线支持:

- [DART Paths](#) →
- [Data Overviews](#)
- [Research Applications](#)
- [Sample Programs](#)
- [Data Update Calendar](#)
- [FAQs](#)

The screenshot displays the WRDS DART Videos website. At the top, the header reads "DART.Videos Data, Analytics, Research, Technology by wrds". Below this, a paragraph states: "Now, more than ever, access to data, analytics, research and technology (DART) is critical to your mission. From the classroom, boardroom, or home, for 25+ years WRDS has supported users with targeted solutions that underpin research, reinforce learning, and enable discovery." To the right, under "FEATURED TOOLS:", there are two video learning cards: "Research Data Overview of WRDS" and "Classroom by WRDS". Below the header is a navigation bar with "All Topics", "Information Professionals", "Instructors", and "Researchers". The main content area features a grid of video learning cards. The first card is titled "Research Data Overview of WRDS" and lists five categories: Pricing data, Fundamental data, Earnings and estimates data, Institutional ownership data, and Other types of data. The other three cards are titled "Introduction to Compustat | Part 1", "Introduction to Compustat | Part 2", and "CRSP Basics". Each card includes a brief description and a "More »" link at the bottom.

WRDS支持

- 联系WRDS：发送邮件至 wrd-support@wharton.upenn.edu 或通过Contact WRDS Support提交问题。



The screenshot shows the Wharton WRDS website interface. The top navigation bar includes the Wharton University of Pennsylvania logo, the text 'wrds WHARTON RESEARCH DATA SERVICES', and a search bar labeled 'Search WRDS'. Below the navigation bar, there are tabs for 'Get Data', 'Analytics', 'Classroom', 'Research', and 'Support'. The 'Support' tab is active, and its dropdown menu is open, displaying a grid of support-related links. The link 'Contact WRDS Support' is highlighted with a red rectangular box. Other links in the menu include 'Getting Started', 'Programming with WRDS', 'Using Data', and 'Info' categories.

GETTING STARTED	PROGRAMMING WITH WRDS	USING DATA	INFO
Accessing WRDS	PC-SAS	Dataset List	Contact WRDS Support
Account Types	MATLAB	Data Update Calendar	Vendor Support & Contact
Library & Lab Access	R	Vendor Manuals and Overviews	Disk Space
Knowledgebase	Python	All Data Articles	SASTemp Directory Usage
WRDS Cloud User Manual	Stata		
All Getting Started Articles	All Programming Guides		

[All Support](#)

联系WRDS

WRDS支持: wrds-support@wharton.upenn.edu

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