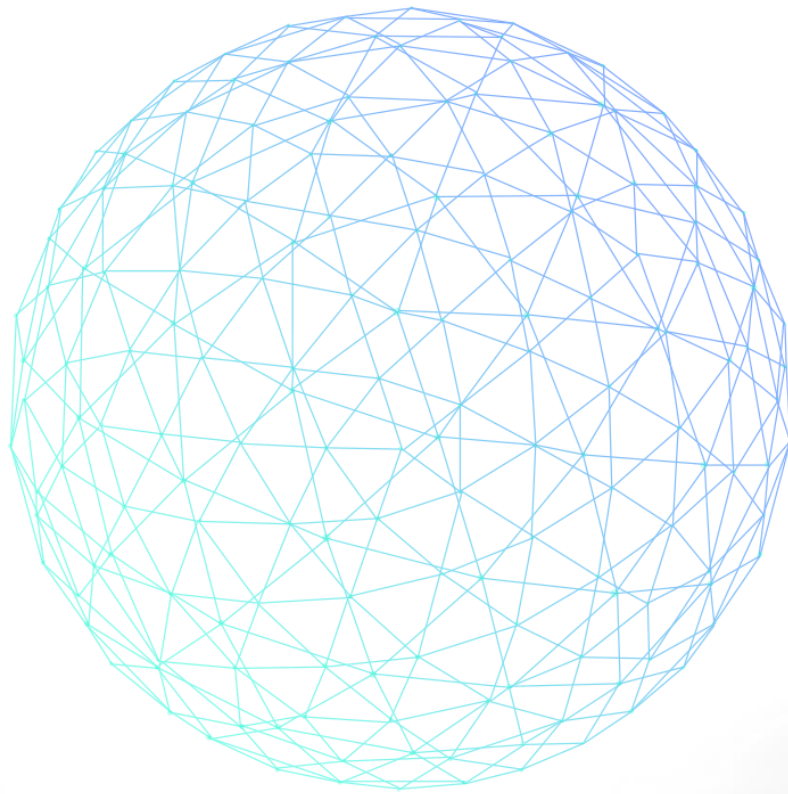


DaaS Platform

Operation Guide



【Version : 3.6.1】

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1. Welcome to DaaS Platform

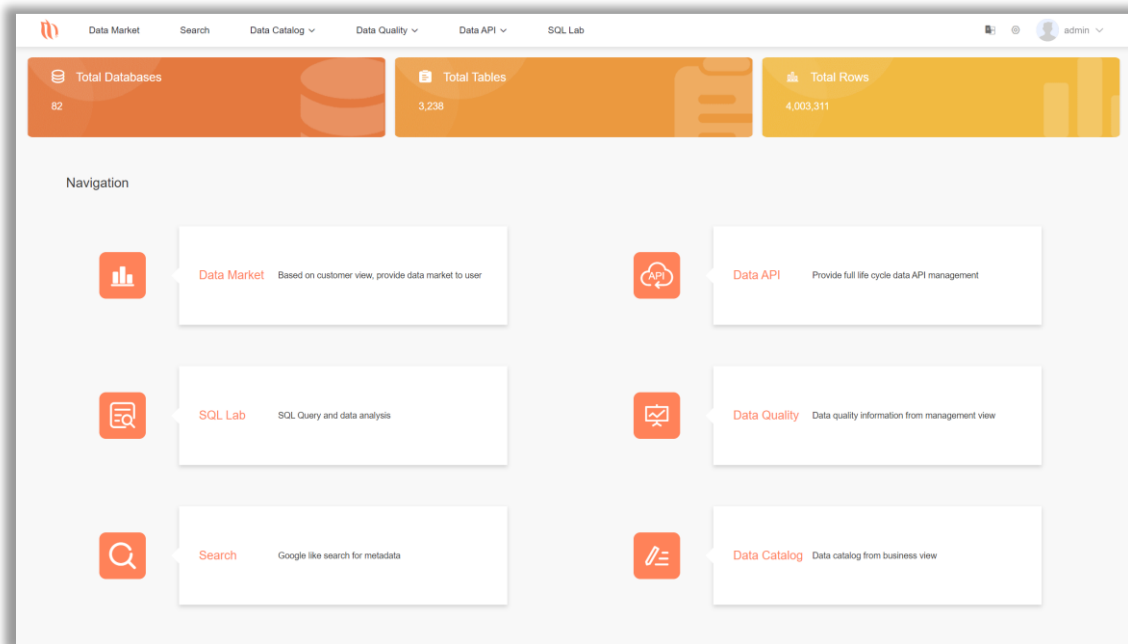
1.1 Product Introduction

With the current fragmentation of enterprise data and business data stored in different data systems, challenges are significant regarding catalog management and data consumption. For example, users hoping to search for related data based on business understanding or view related data by business catalog face challenges. After obtaining the data, the desire to quickly consume data from different sources is also challenging. At this stage, where big data is commonly applied, users often face various performance and stability issues during high concurrency and large data volume retrieval and download. Therefore, enterprises urgently need a complete application platform software system that can support various functionalities such as business catalog management, search, data query, API service publication, and API service behavior analysis for different data sources. This would enhance the entire lifecycle management of enterprise data and provide efficient and stable data consumption capabilities. The DaaS (Data as a Service) platform focuses mainly on the pain points and concerns of enterprise business users in data usage. It creates an end-to-end data process from data search, understanding, viewing, and consumption, helping enterprise users to manage and use data more openly and efficiently.

1.2 Features of DaaS Platform

- Ready to use: Easy installation, providing a green installation version.
- Deployment modes: Supports preset and cloud deployment modes.
- User-friendly: A clean interface, no training required; suitable for business personnel.
- Supports all major databases: MySQL, Oracle, PostgreSQL, Hadoop, Hive, etc.
- Low TCO: No need to purchase separate ETL tools.
- Full-text search: Google-style search quickly finds the required data.
- 100% self-developed national software: Meets the requirements of some enterprises for domestic software.
- High security: Permission management throughout the entire platform.
- Strong integration: Native modules on the same platform integrate seamlessly, offering a one-stop service for data discovery, capture, full-text search, viewing samples, downloading, following, data crowdsourcing, and label management.
- Independent API service publication: Supports IT and business departments to independently release data services.
- User data behavior analysis: Helps IT better manage data assets.
- Data market: Business users can self-serve using data API products.

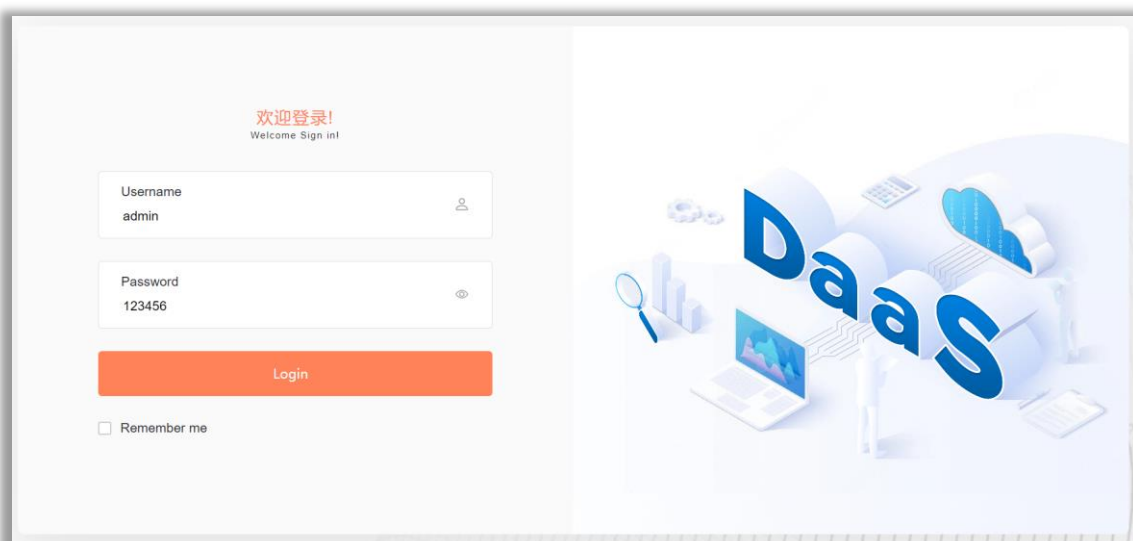
1.3 Home Page



2 System Login and Logout

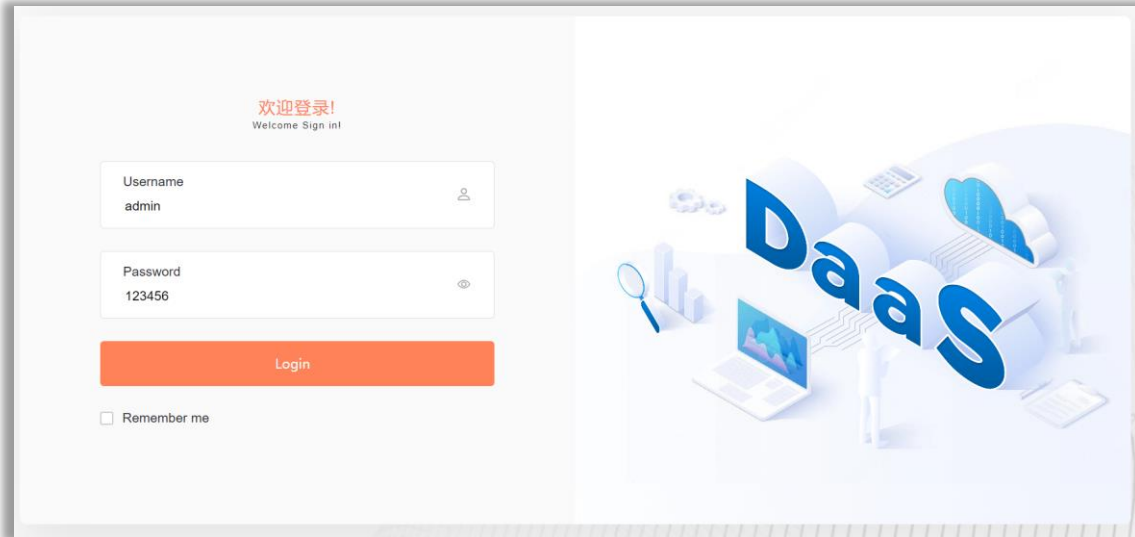
2.1 Login

Login page, access at IP:port.

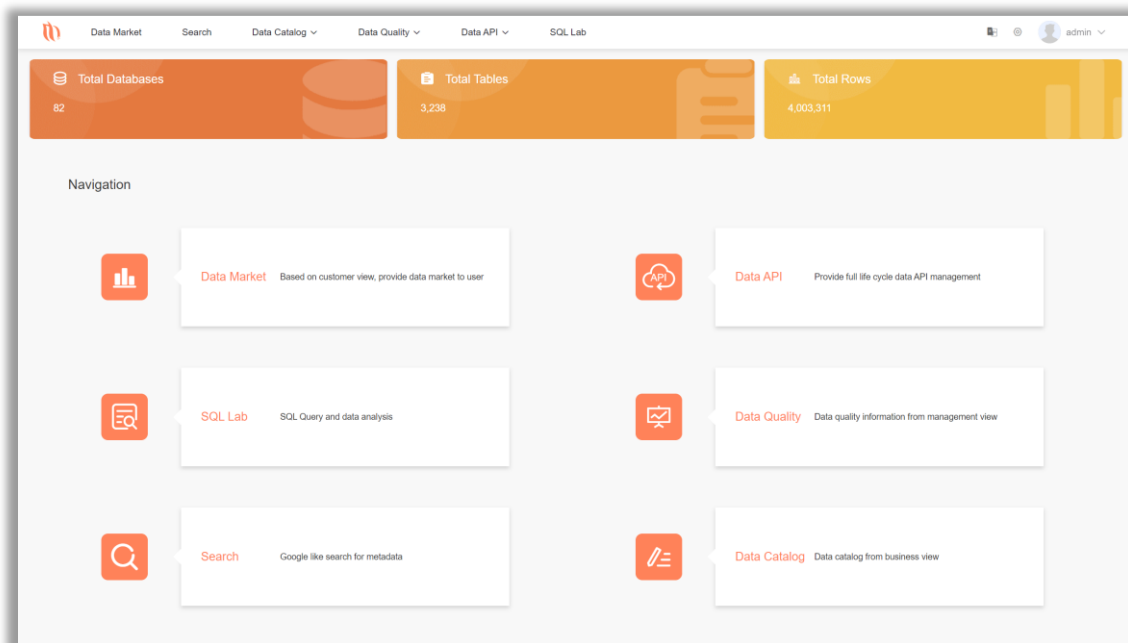


2.2 Login Authentication

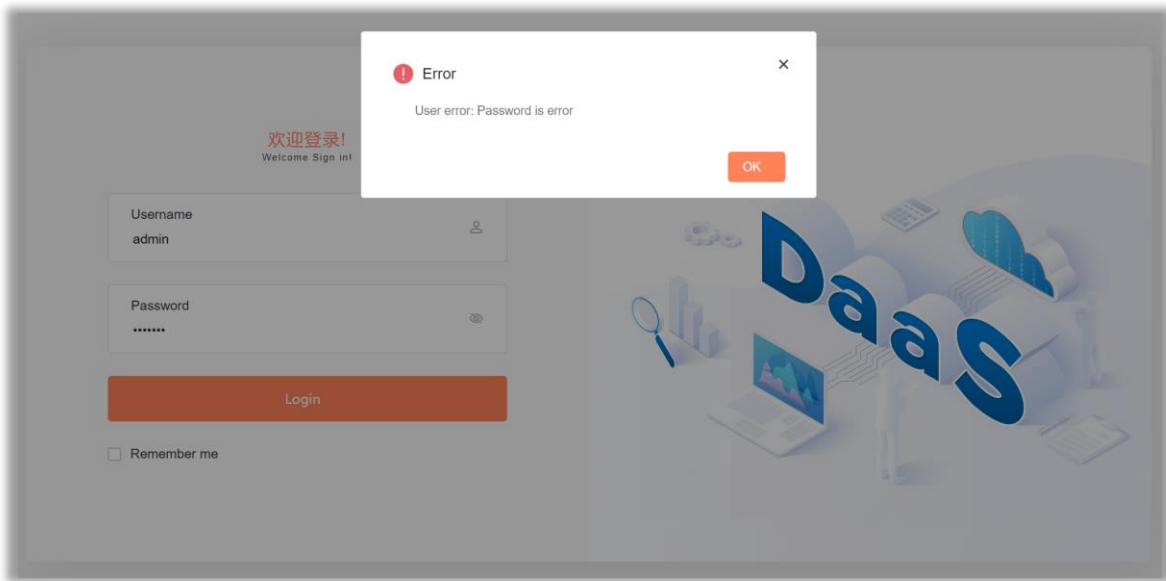
During login, the system will verify the username and password. If correct, login is successful; otherwise, a prompt will appear.



Login successful, navigate to the home page.

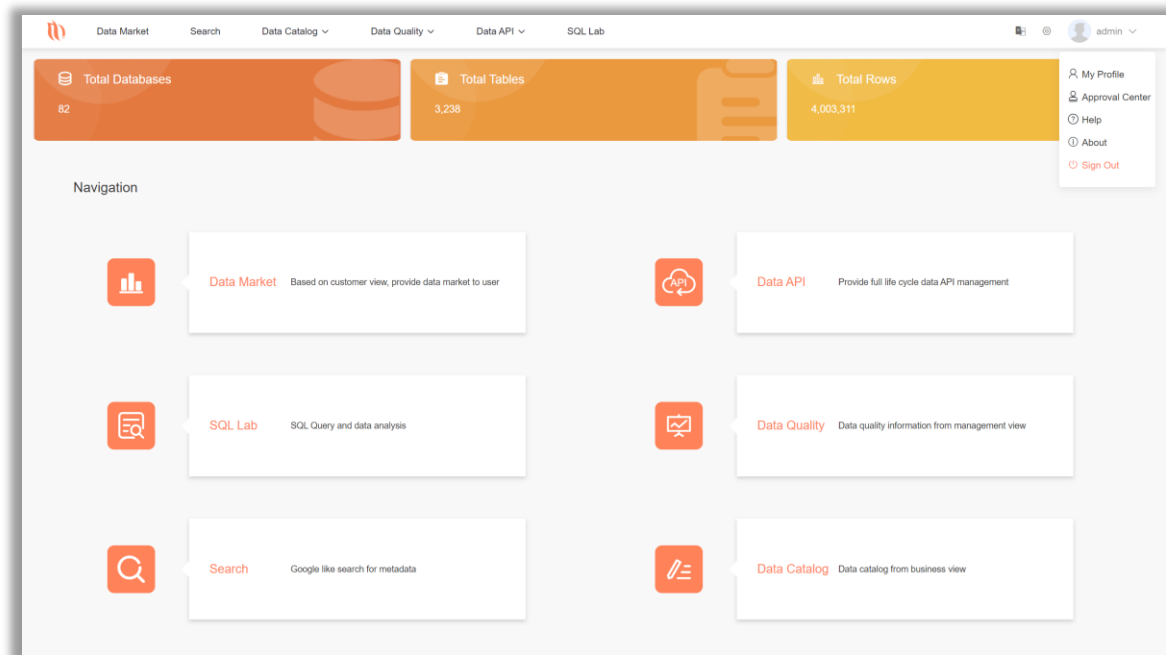


Login failed, a prompt appears



2.3 Logout

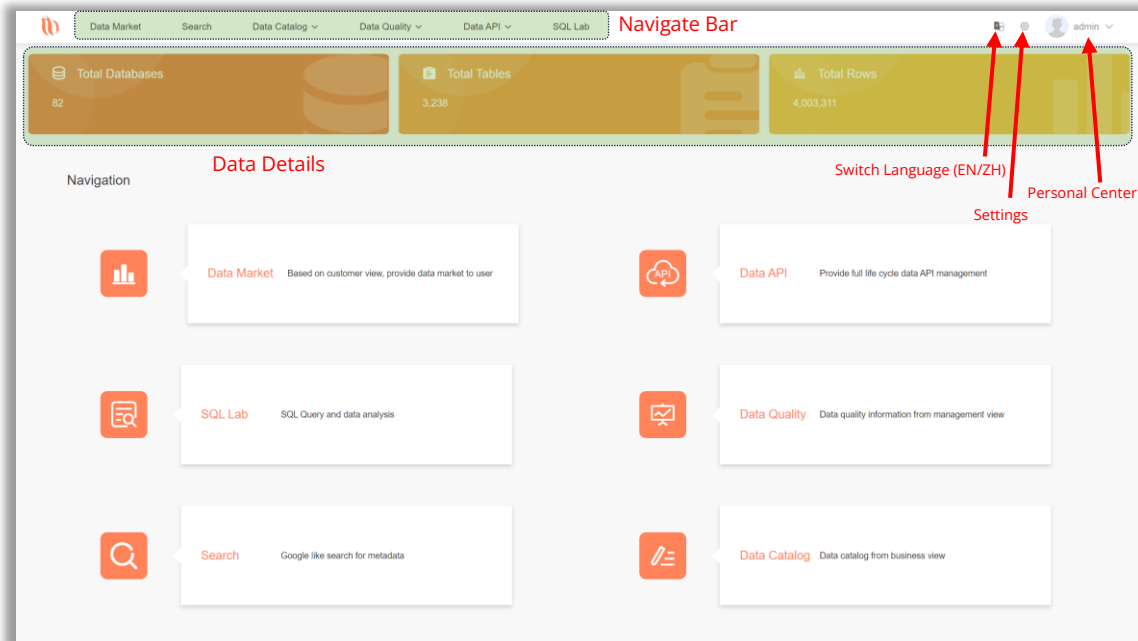
Click on the personal center in the top right corner to exit the system.



3 System Introduction

3.1 Main Page

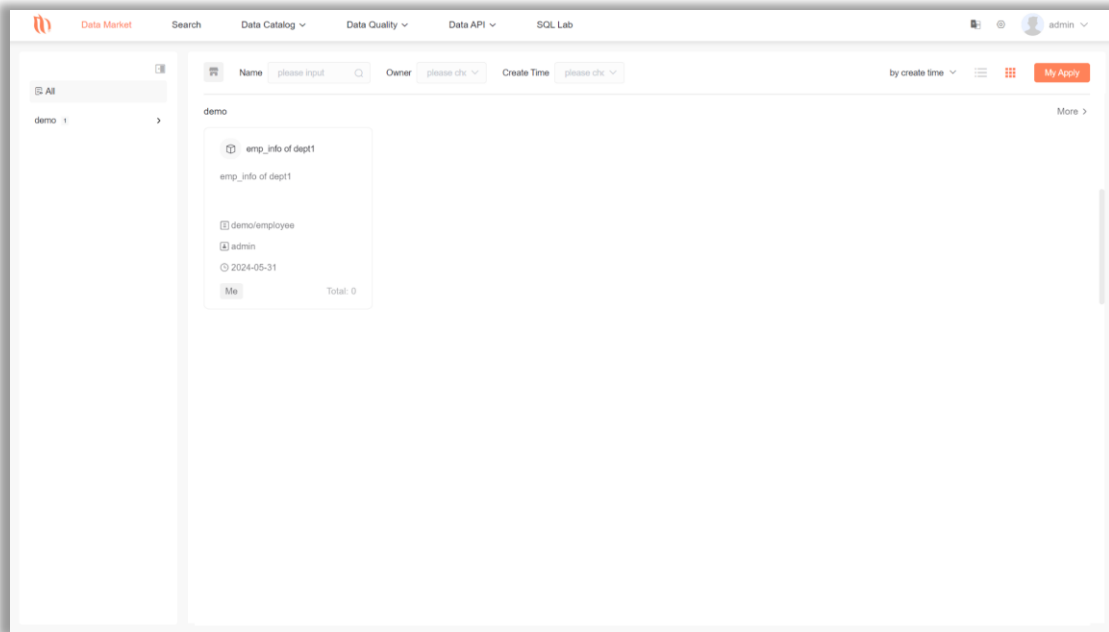
The navigation bar is at the top; basic database information in the middle; quick access bar at the bottom; username and settings are displayed on the top right, with "Personal Center" hidden inside.



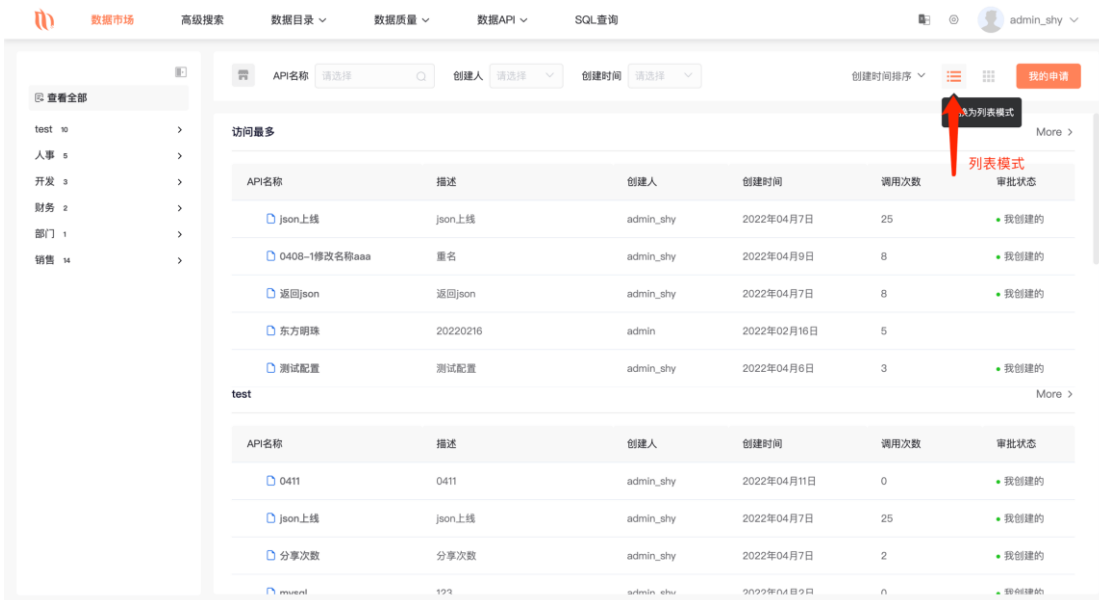
3.2 Data Market

3.2.1 Data Market

Presents data APIs in a market concept, allowing all users to pick and call APIs as they wish. One-stop service for data permission application, data call, and data download. On the home page, users can see the most visited APIs, basic information, and various filter conditions for quick search. Admin and data admin users have default call permissions for all data APIs.

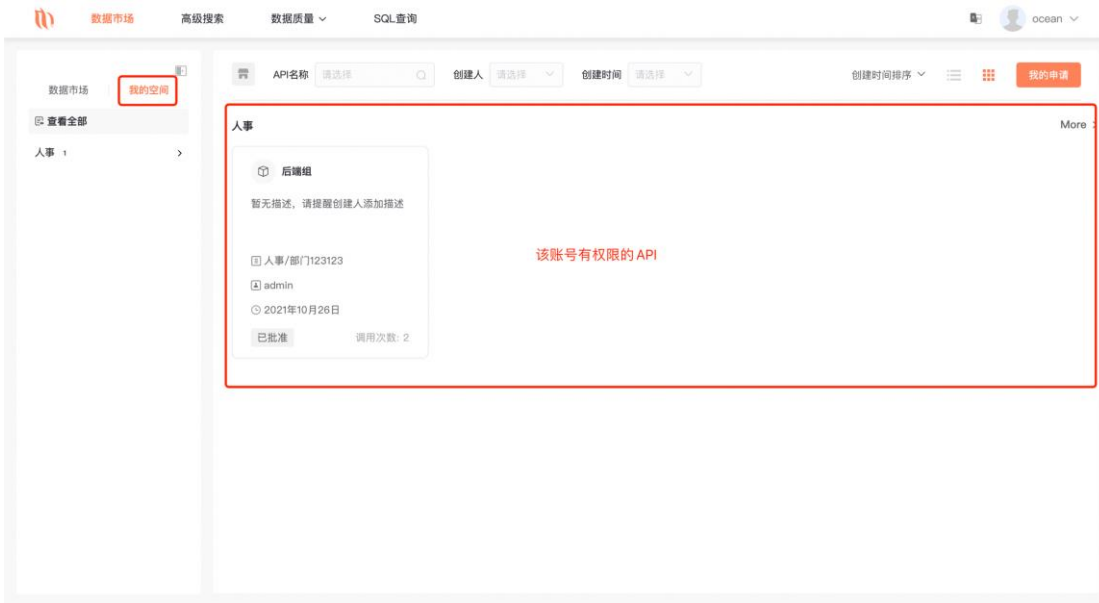


Also, the data market provides different data presentation forms.



3.2.2 My Space (User)

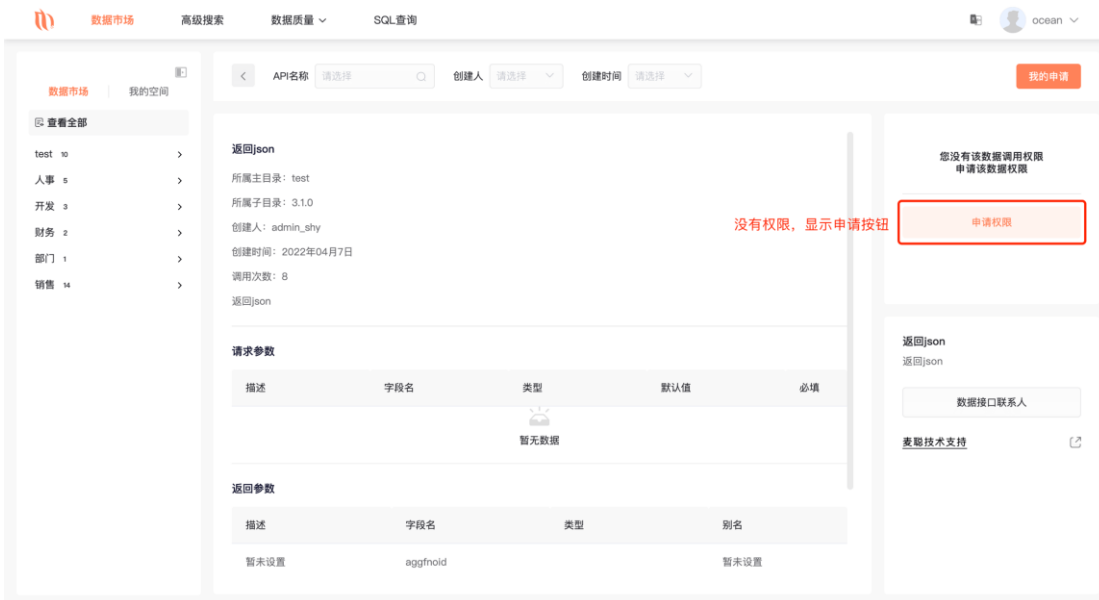
Non-administrator, non-data administrator roles have the "My Space" tab, displaying only data APIs created by the user or accessed with calling permissions for user management and calls.

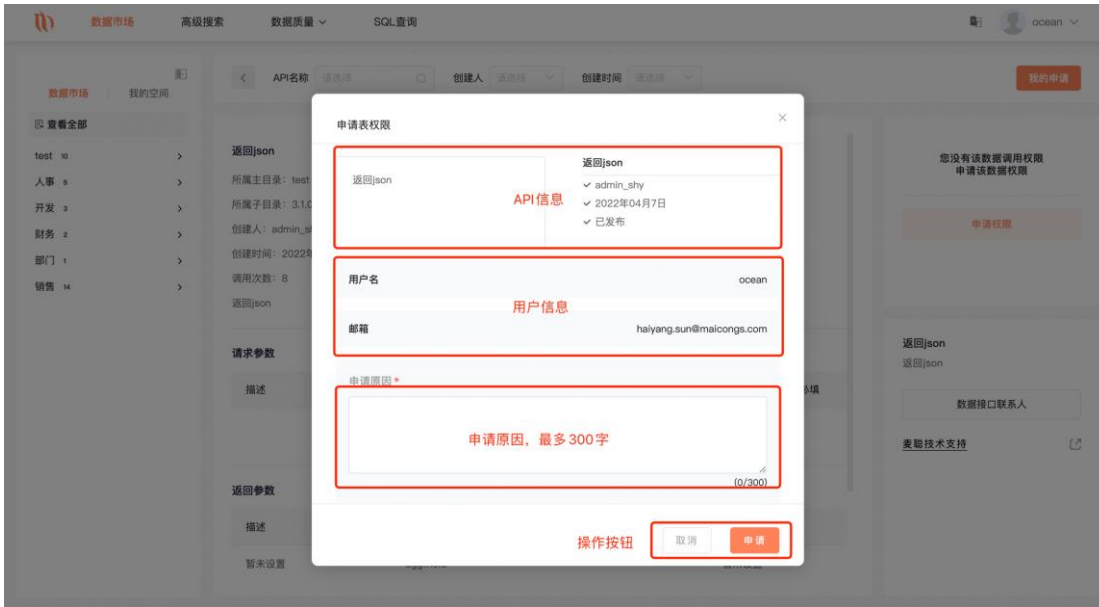


3.2.3 Data API Details

3.2.3.1 No Data Call Permission

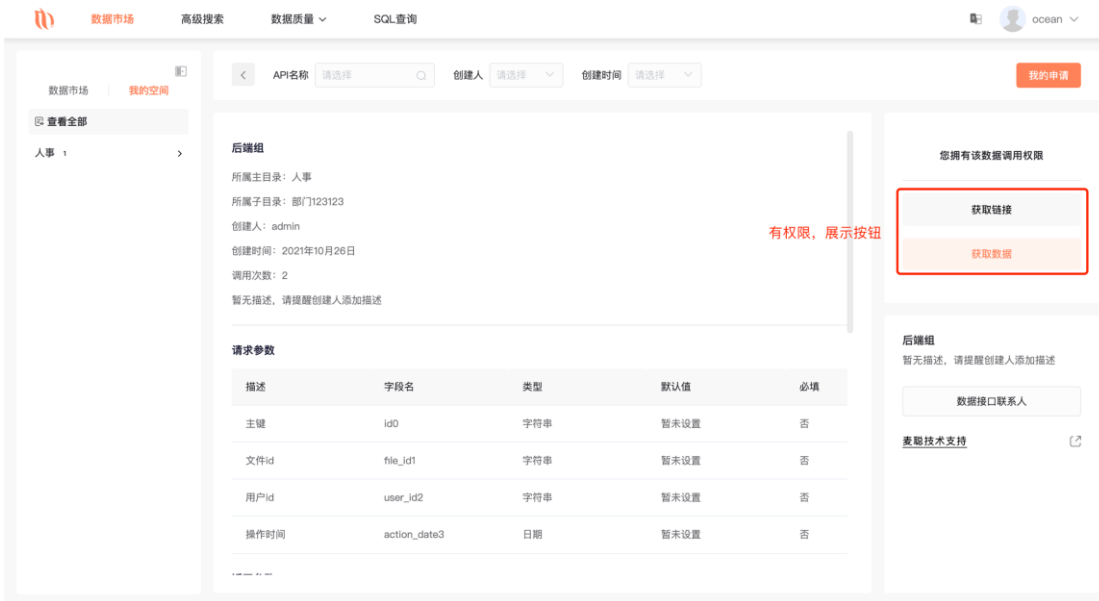
If the user does not have the call permission for a data API, they can apply in real-time for permission from the creator, administrator, or data administrator (no duplicate submissions).





3.2.3.2 Get Data

If the user has calling permissions, they can view the data directly.





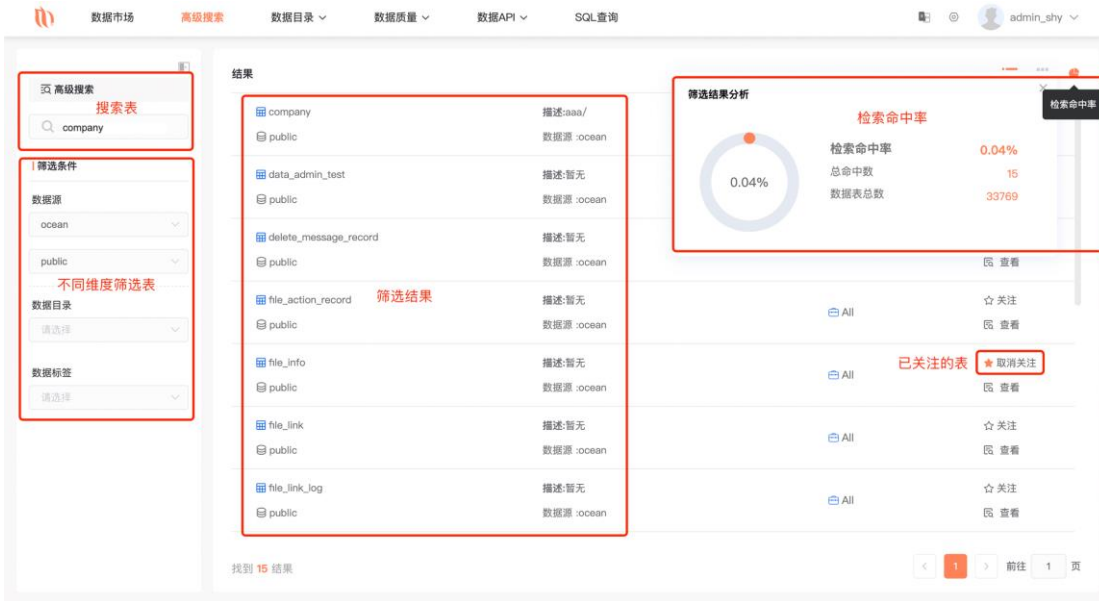
3.2.3.3 Get API

You can also get real-time application links to share with others for calling (you must first get the API token from the permission verification interface before you can access the data, see API documentation for details).



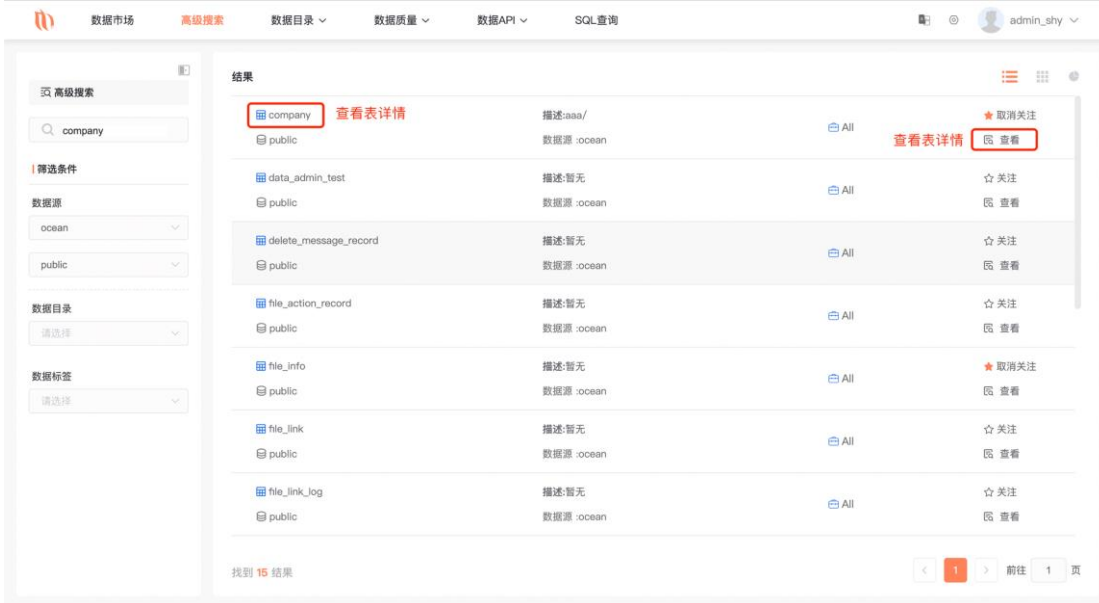
3.3 Advanced Search

Search by entering keywords in the search box at the top of the page, which will display tables with the keyword. You can also view tables under various filters such as "Database," "Data Catalog," and "Data Label" below the search. Choose pages at the bottom right.



3.3.1 View Table Information

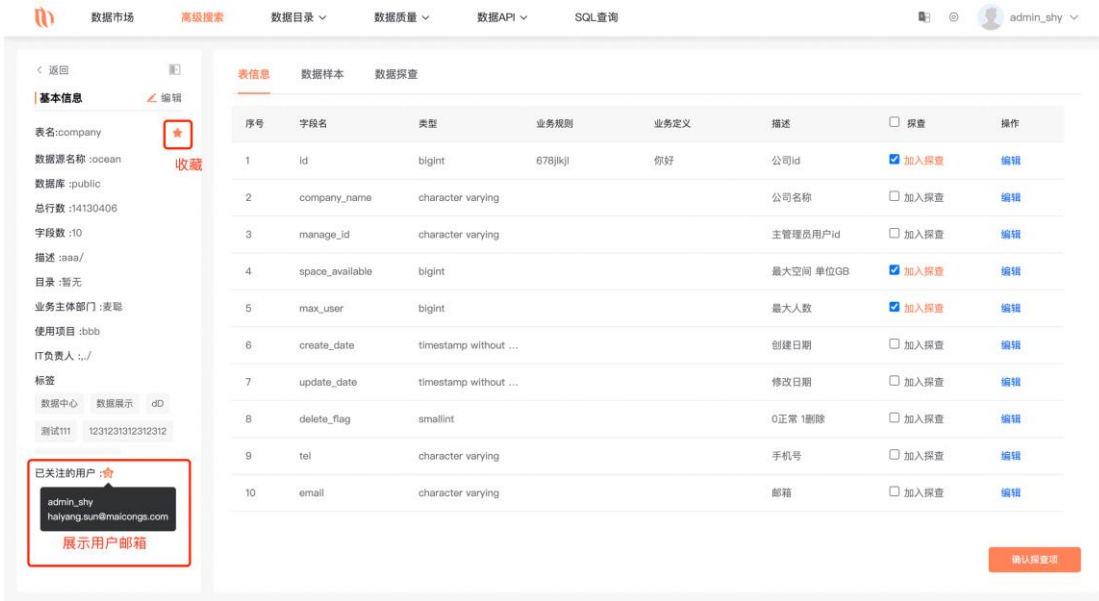
Click the table name or "Action" button of any table to enter the "Table Information" page.



3.3.2 Table Information

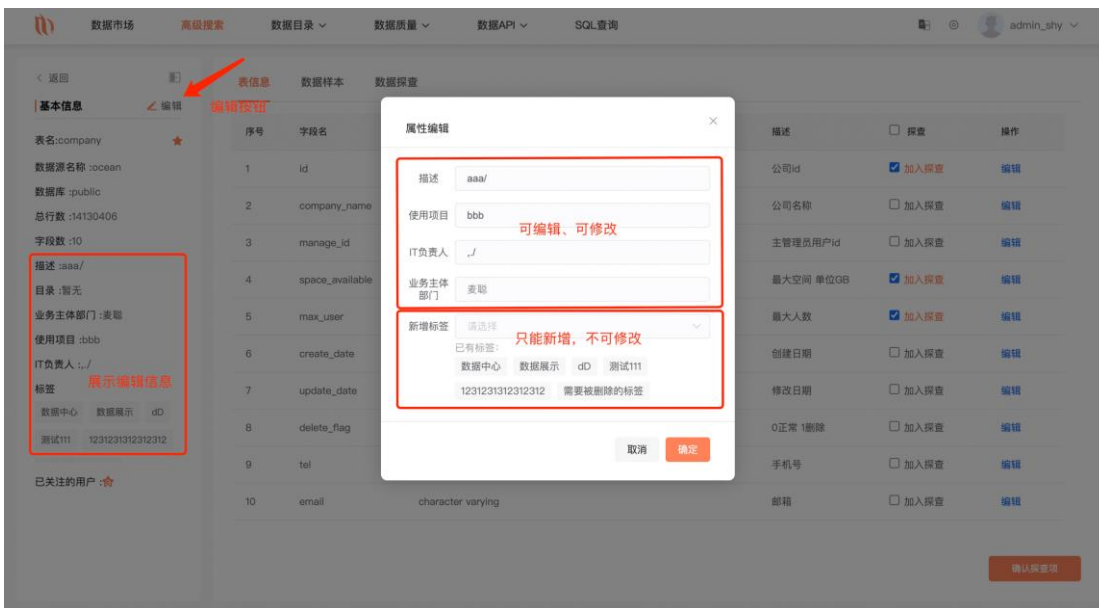
3.3.2.1 Favorite

Click the button to favorite the data table for the current user, which can be viewed in "Personal Center - My Favorites." The result is shown in "Following Users". The username and email will display automatically when the cursor hovers over the initials displayed.



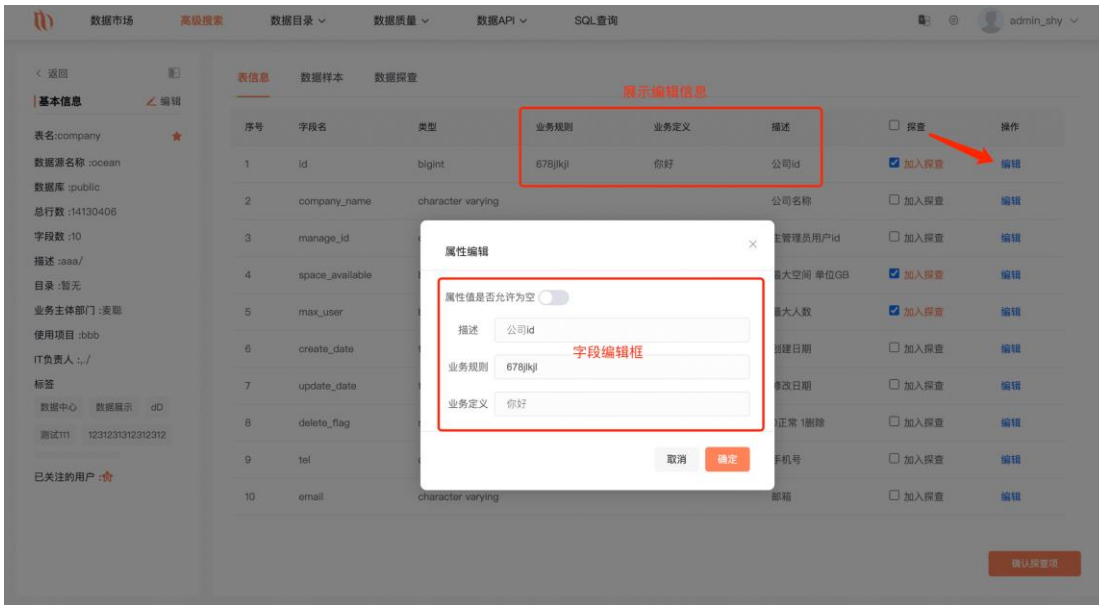
3.3.2.2 Edit Table Information

Click "Edit" to edit the description, project usage, IT responsibility, business department, add labels, and view selected labels.



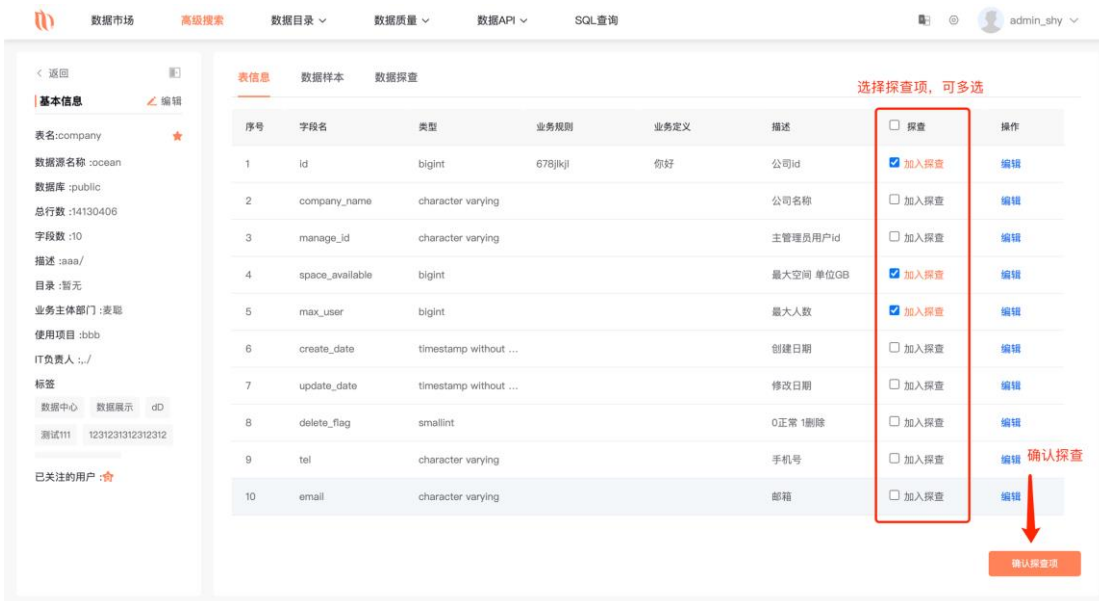
3.3.2.3 Edit Field Information

Click the Edit button to edit in the popup.



3.3.2.4 Add to Exploration

After selecting the exploration item and confirming it, navigate to the "Data Exploration" page.



3.3.3 Data Sample

可按需求正序、倒叙

id	company_name	manage_id	space_available	max_user	create_date
6795213	Nakayama Corporation	Gy11OqjUOc	213	522	2018-04-03 15:05:02
6795214	Chiu Wai Limited	6MxXN0sVw	978	392	2000-09-21 10:53:53
6795215	Mitsuki Electronic Corporation	oeYtAu8ek0	889	419	2001-03-09 22:28:17
6795216	Zhennan Development & Trading Company Limited	EC97ELQqe	842	924	2004-06-17 05:10:38
6795217	Mai Food Corporation	E5hz0weMo3	796	500	2005-01-13 14:36:38
6795218	Anqi Consultants Company Limited	LBakXfIQMs	803	765	2000-02-26 11:23:58
6795219	Yung's Industrial Limited	Mikr3pqb	686	886	2008-12-04 15:27:21
6795220	Hung's Limited	3KFsuxPaVW	369	638	2015-03-14 00:09:48
6795221	Clifford Pharmaceutical Inc.	chUHV3XOUg	451	997	2018-09-30 19:44:39
6795222	Xiaoming Company Limited	fMgShjzJp	931	785	2013-04-10 17:34:11
6795223	Hikari Corporation	hw550Ej6z	771	686	2019-03-06 05:19:27
6795224	Saito Network Systems Corporation	n7KjKpCbJr	13	240	2015-07-27 04:45:14
6795225	Choi's Limited	ga0H7RAmGP	377	201	2002-08-23 14:23:32
6795226	Wood Brothers Consultants Inc.	xnxJhoqKS	543	652	2001-12-29 05:57:01
6795227	Wai Lam Telecommunication Limited	AfbW4bD4y1	317	159	2013-08-03 02:00:49
6795228	Hikari Communications Corporation	q8pPVARxAg	901	396	2006-12-02 01:34:13

3.3.4 Data Exploration

To show exploration results, settings, manual refresh, export, you must select exploration items.

选择探查项，可多选

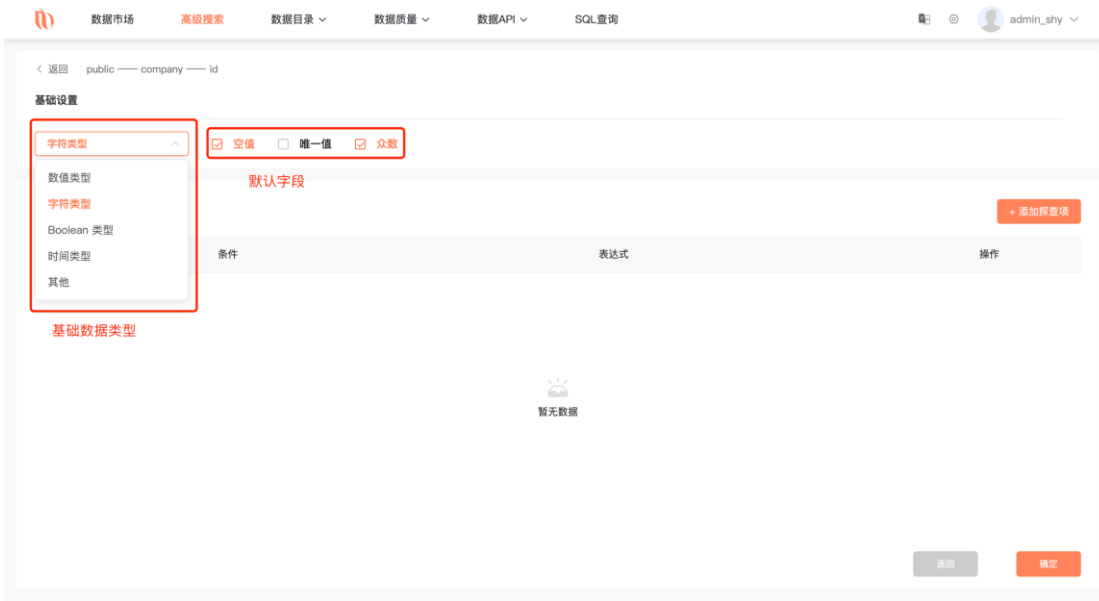
序号	字段名	类型	业务规则	业务定义	描述	探查	操作
1	id	bigint	678jkl	你好	公司id	<input checked="" type="checkbox"/> 加入探查	编辑
2	company_name	character varying			公司名称	<input type="checkbox"/> 加入探查	编辑
3	manage_id	character varying			主管理员用户id	<input type="checkbox"/> 加入探查	编辑
4	space_available	bigint			最大空间 单位GB	<input checked="" type="checkbox"/> 加入探查	编辑
5	max_user	bigint			最大人数	<input checked="" type="checkbox"/> 加入探查	编辑
6	create_date	timestamp without ...			创建日期	<input type="checkbox"/> 加入探查	编辑
7	update_date	timestamp without ...			修改日期	<input type="checkbox"/> 加入探查	编辑
8	delete_flag	smallint			0正常 1删除	<input type="checkbox"/> 加入探查	编辑
9	tel	character varying			手机号	<input type="checkbox"/> 加入探查	编辑
10	email	character varying			邮箱	<input type="checkbox"/> 加入探查	编辑

确认探查



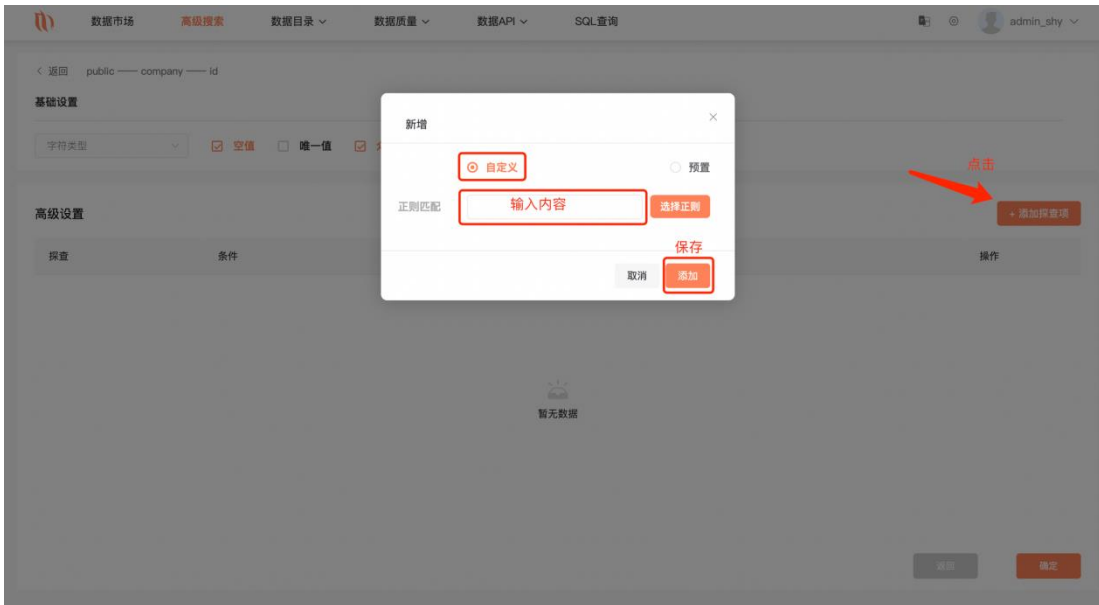
3.3.5 Exploration Settings

Choose setting types (Character, Data, Boolean, Time, Other) from the dropdown in basic settings.



3.3.6 Advanced Settings

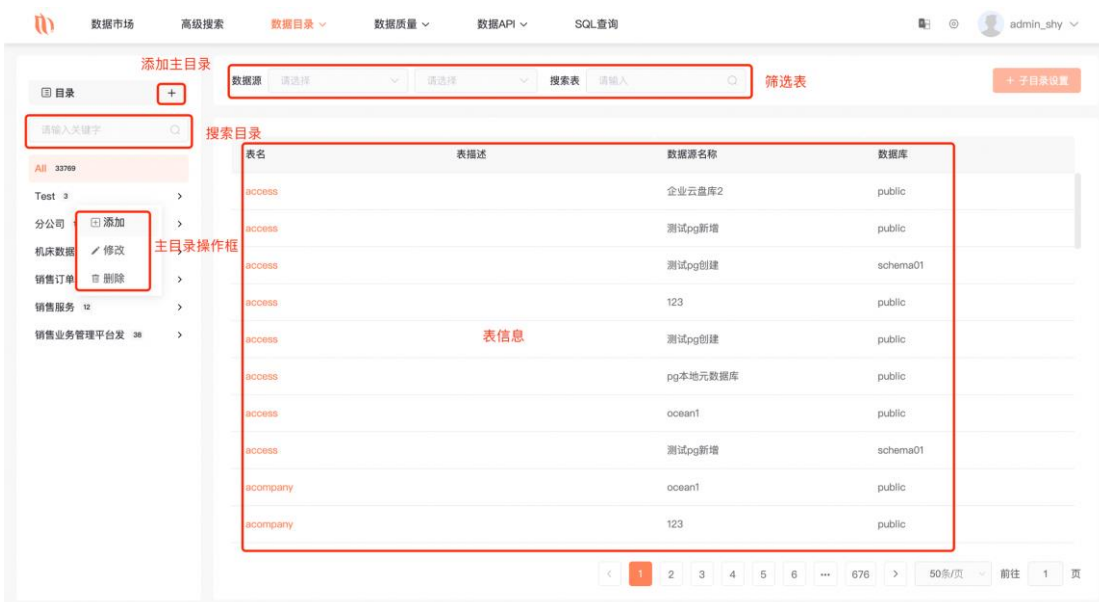
Choose preset options from the dropdown, select custom options from the custom dropdown, add regex. You can edit or delete regex in the list.



3.4 Data Catalog

3.4.1 Maintain Main Catalog and Filter Tables

Data directories include a main catalog and subcatalogs. Each main catalog has a "+" to add subcatalogs within that catalog, and there's a "+" to add main directories at the right side of the catalog row. There's a search box at the bottom of the catalog row to quickly search the main or subcatalogs by keyword. When a main catalog is selected, it shows all the tables in that catalog.



3.4.2 Maintain Subcatalogs

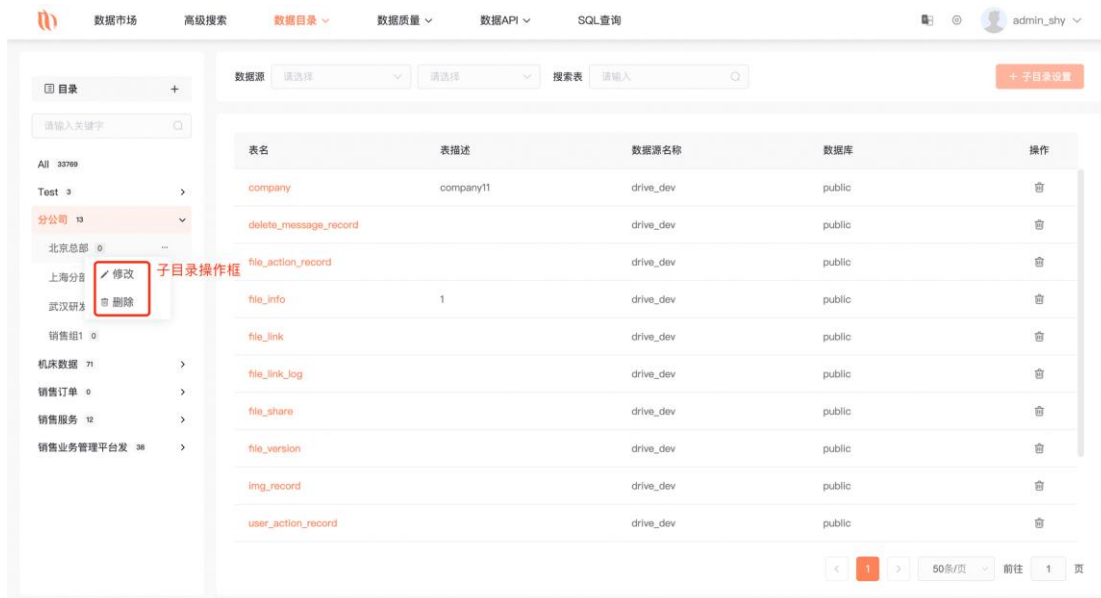
Select a subcatalog and click "..." on the right for options.

3.4.2.1 Modify

Admin role account needed. Click "Modify" in "...", and hit Enter after entering a name.

3.4.2.2 Delete

Admin role account needed. Click "Delete" in "...", confirm in the popup.



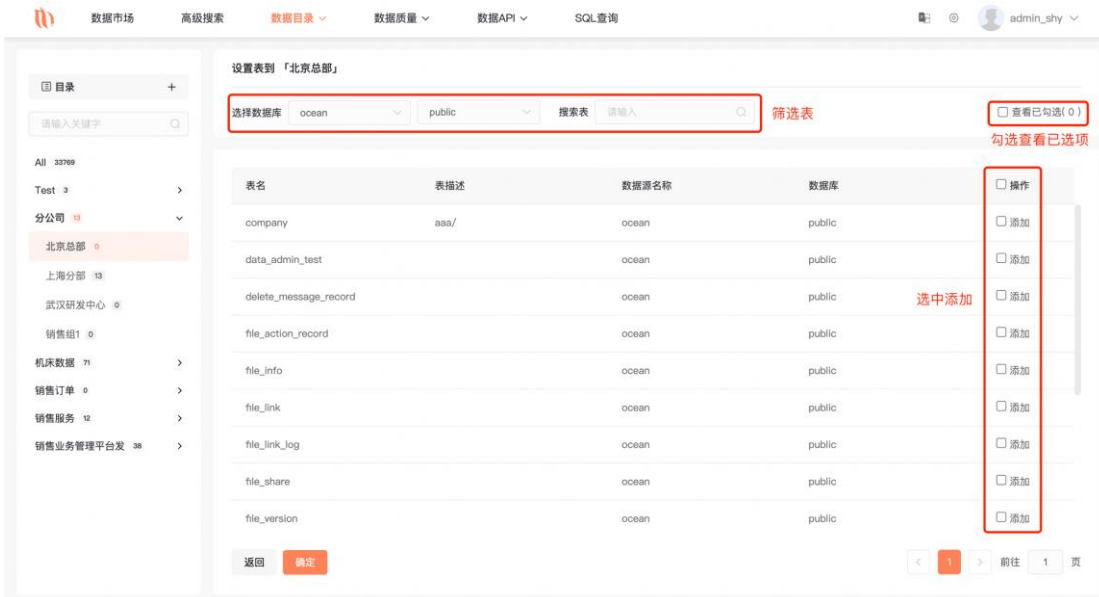
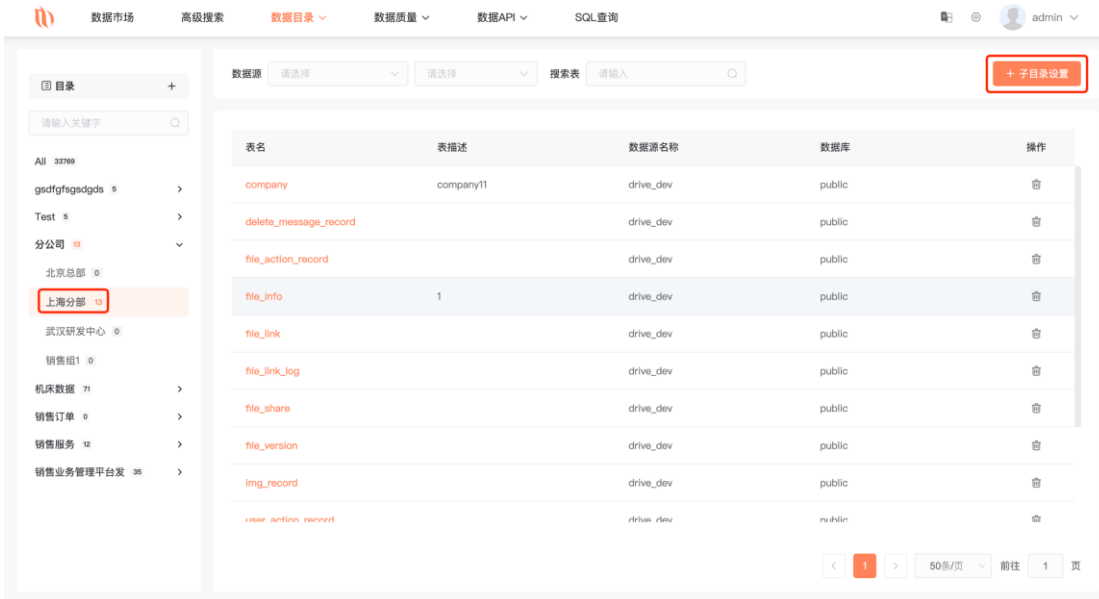
The screenshot shows the SQLYNX interface with a table of subcatalogs. The table has columns for '表名' (Table Name), '表描述' (Table Description), '数据源名称' (Data Source Name), '数据库' (Database), and '操作' (Action). The 'file_info' row is highlighted, and its '操作' column contains a red box with '修改' (Modify) and '删除' (Delete) icons. A red text label '子目录操作框' points to this area.

表名	表描述	数据源名称	数据库	操作
company	company11	drive_dev	public	⋮
delete_message_record		drive_dev	public	⋮
file_action_record		drive_dev	public	⋮
file_info	1	drive_dev	public	⋮
file_link		drive_dev	public	⋮
file_link_log		drive_dev	public	⋮
file_share		drive_dev	public	⋮
file_version		drive_dev	public	⋮
img_record		drive_dev	public	⋮
user_action_record		drive_dev	public	⋮

3.4.3 Manage Directories and Corresponding Tables

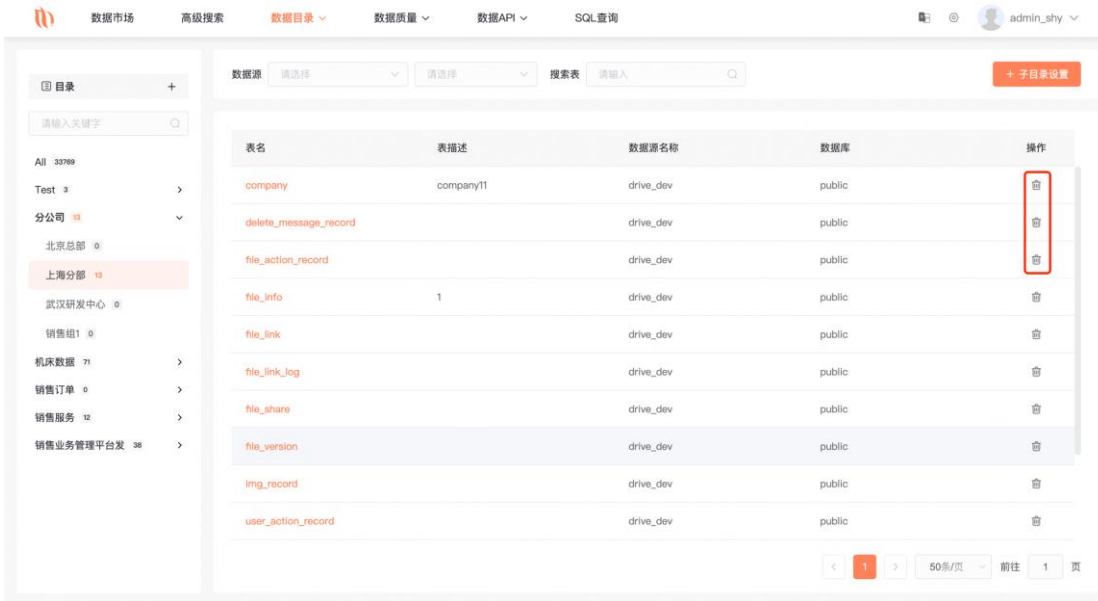
3.4.3.1 Add Tables

Select the appropriate subcatalog and click "+ Subcatalog Settings" in the top right.



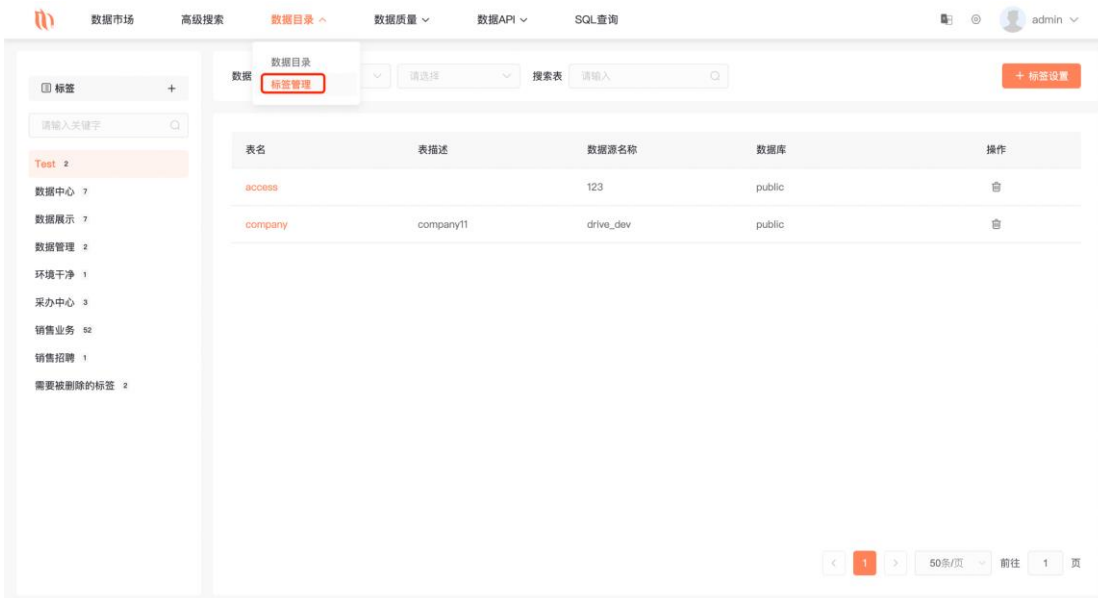
3.4.3.2 Delete Tables

To delete a table under a subcatalog, select "Delete" on the right, confirm, and delete successfully.



3.4.4 Label Management

Reflects data crowdsourcing features. First, users can define different labels and then add corresponding tables from databases under these labels. Each table can have multiple different labels. Label management makes it easy for users to quickly identify and search for the required data, involving business users in data management and improving usage rates.



3.4.4.1 Add Label

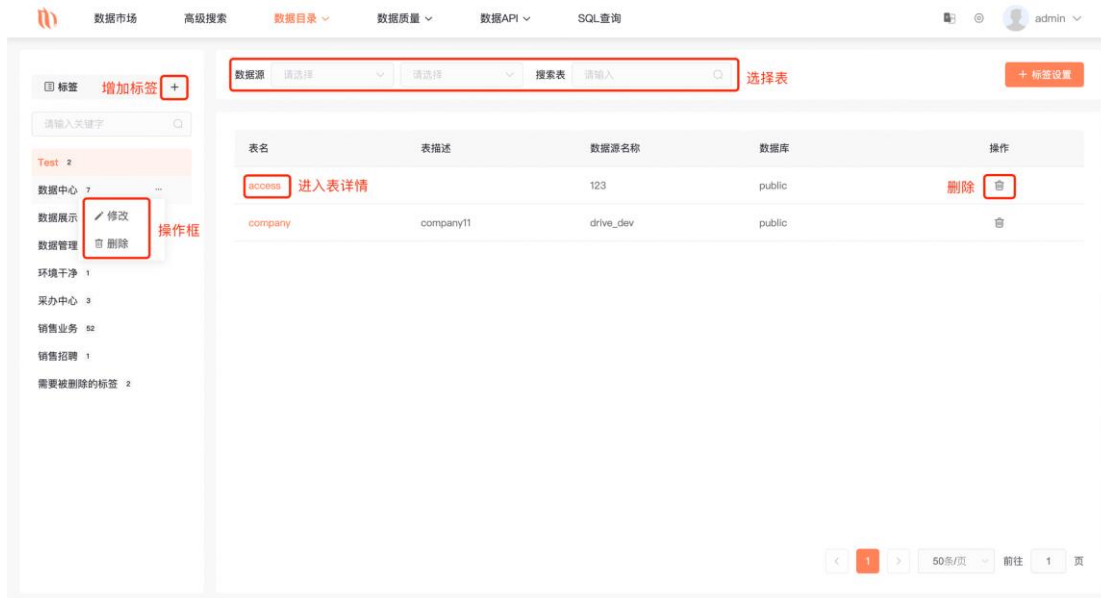
Click "+" next to a label, then enter the label name and save.

3.4.4.2 Modify Label

Admin account needed. Click "Modify" in "..." next to a label, enter a new name, and hit Enter.

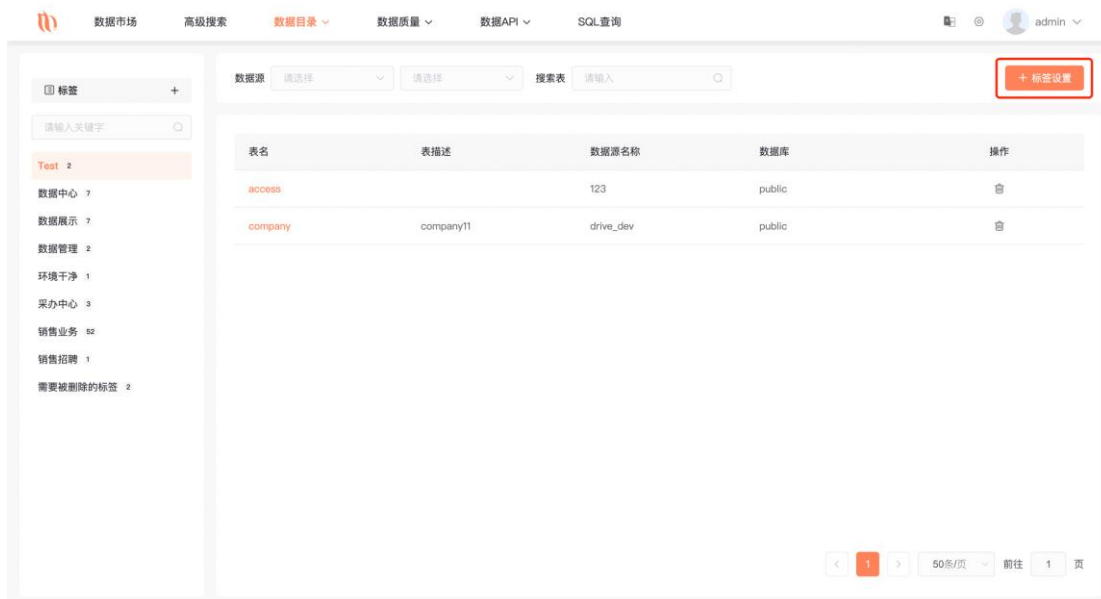
3.4.4.3 Delete Label

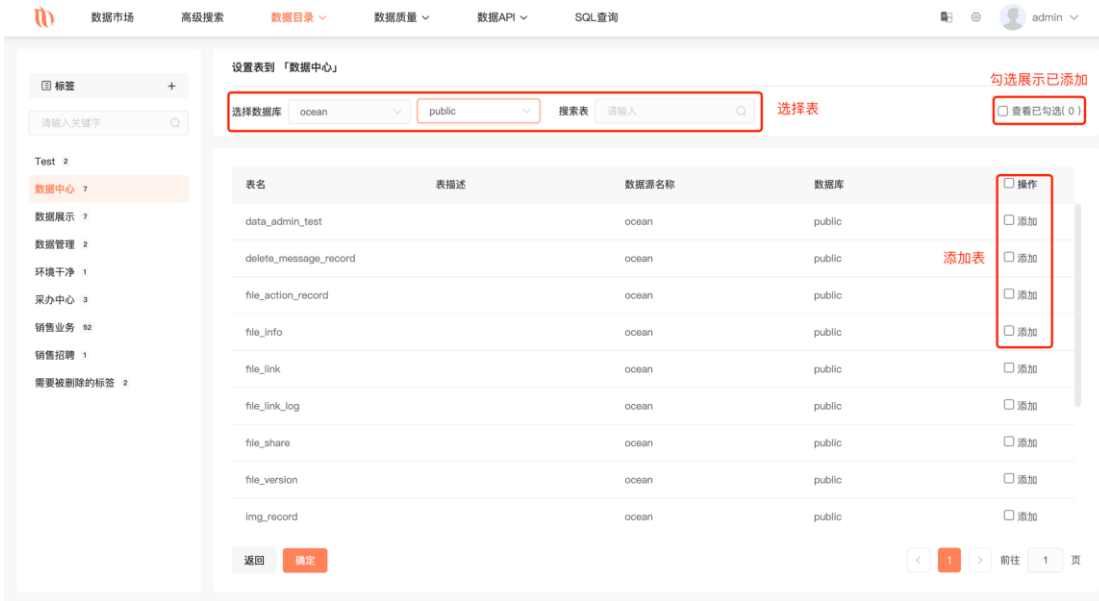
Admin account needed. Click "Delete" in "..." next to a label and confirm.



3.4.4.4 Set Label

Select a label name and click "Label Settings" to enter the "Add Table to [specific label]" page.



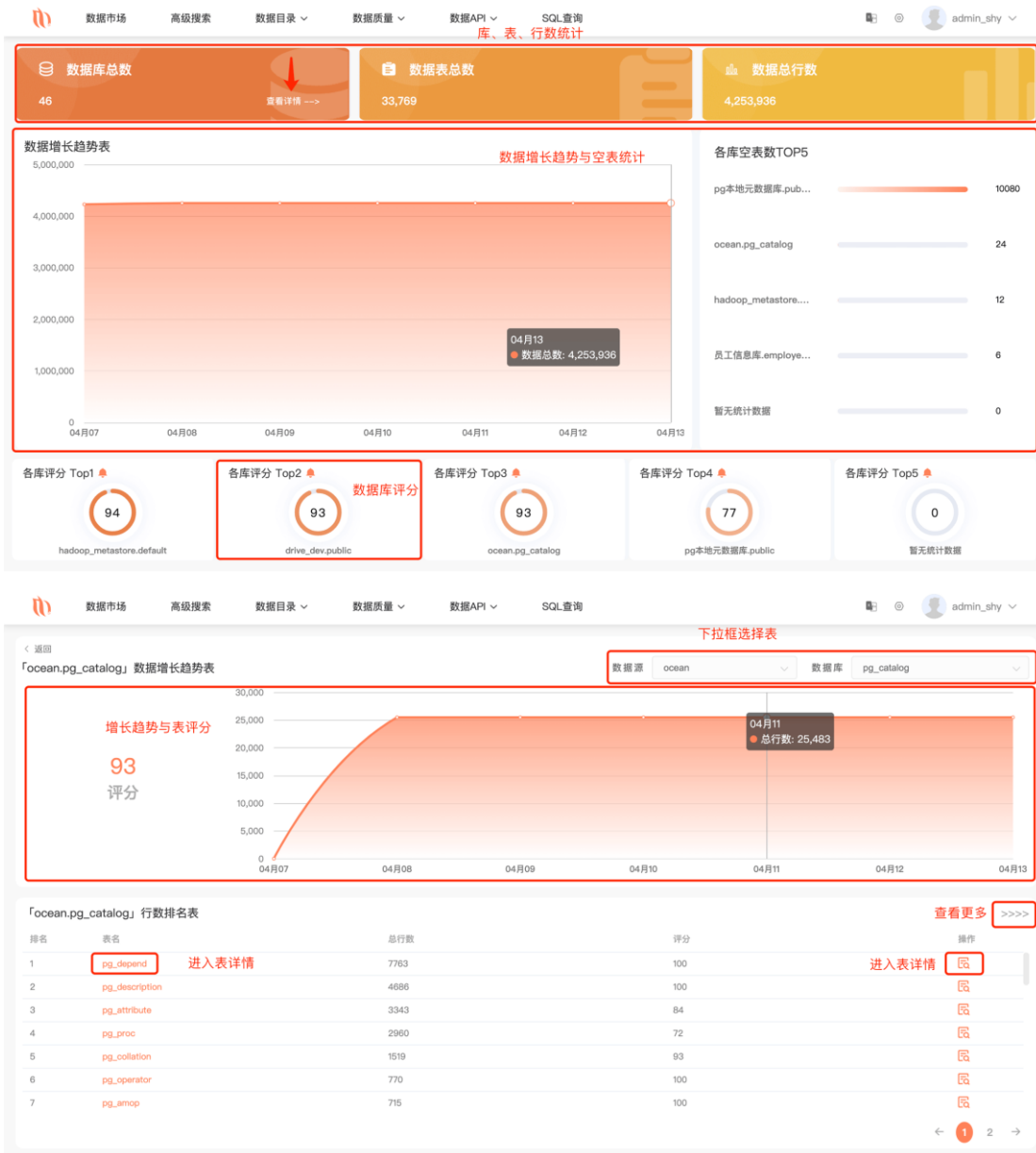


3.5 Data Quality

3.5.1 Quality Report

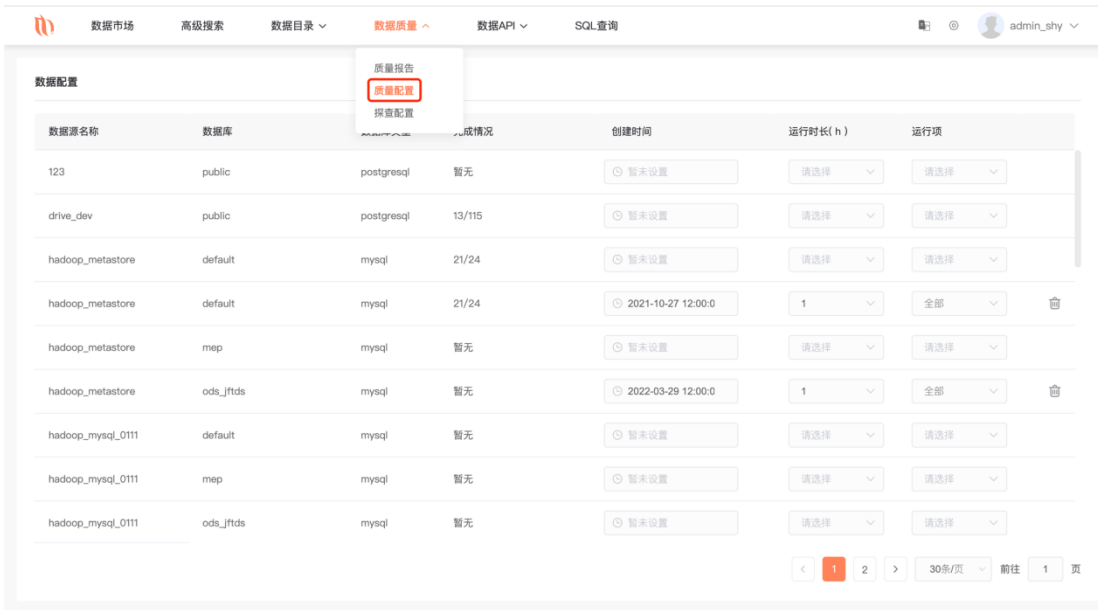
Assess the quality score of user data sources synced to the system. It analyzes data growth, null rates, and health scores.





3.5.2 Quality Configuration

Users can configure data quality assessments for databases as needed. Confirm before deleting a setup.



3.5.2.1 Time Setting

After setting up the "start time" and "duration," the system will analyze the set database's quality automatically without exceeding the specified duration when the start time comes.

3.5.2.2 Duration

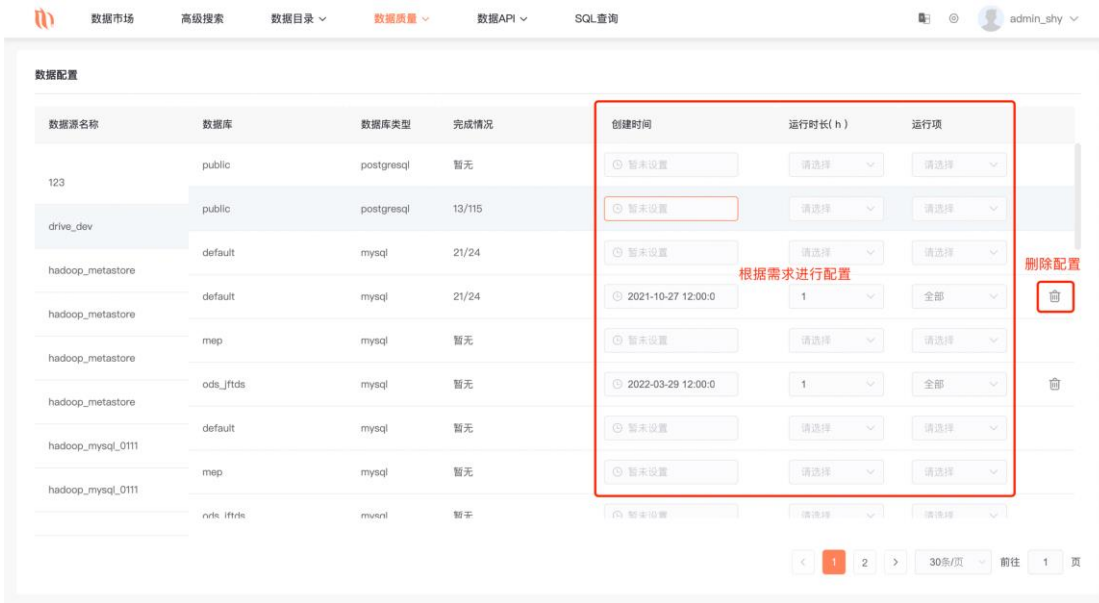
Select the duration in dropdown menus and check quality based on that duration.

3.5.2.3 Run Items

Choose "Scan Table Rows Only" or "Data Quality," and the "Quality Report" page will show the empty table rate, total rows, etc. Choosing "All" will also rate the database's quality in addition to showing the empty table rate and total rows.

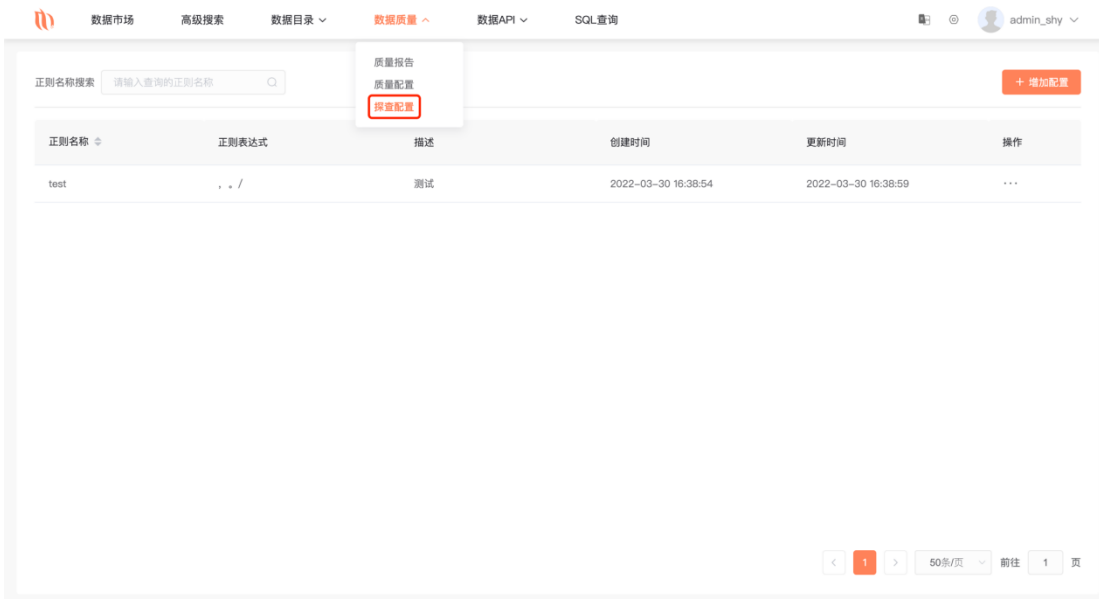
3.5.2.4 Delete Setup

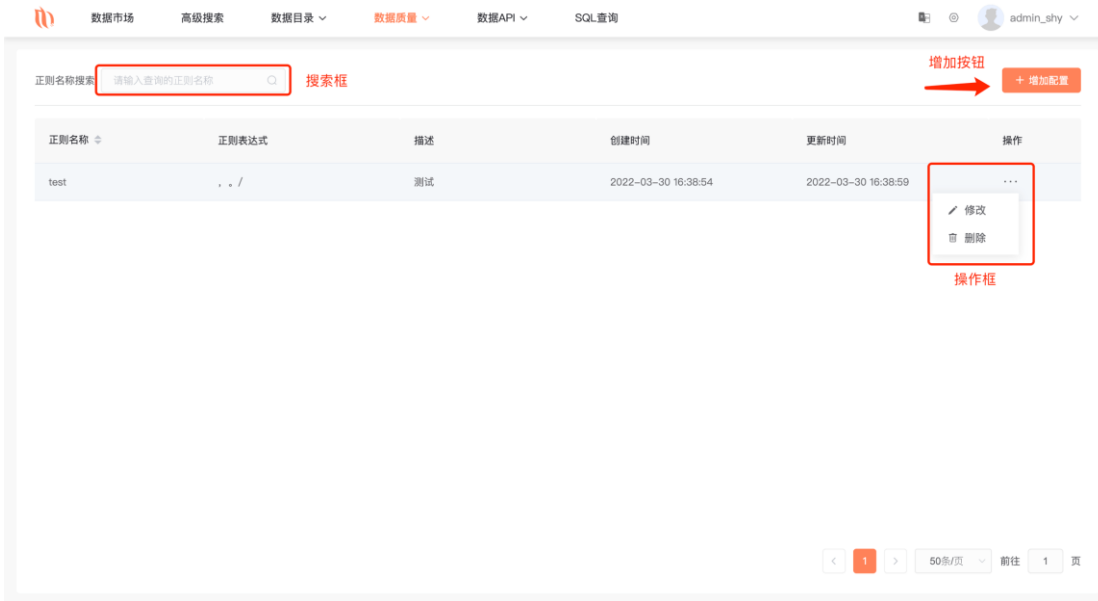
Click "Delete" on the right side to remove this data configuration.



3.5.3 Inspection Configuration

The added regular expression can be selected directly and invoked in the operation of the data table. You can search, add, edit, and delete.



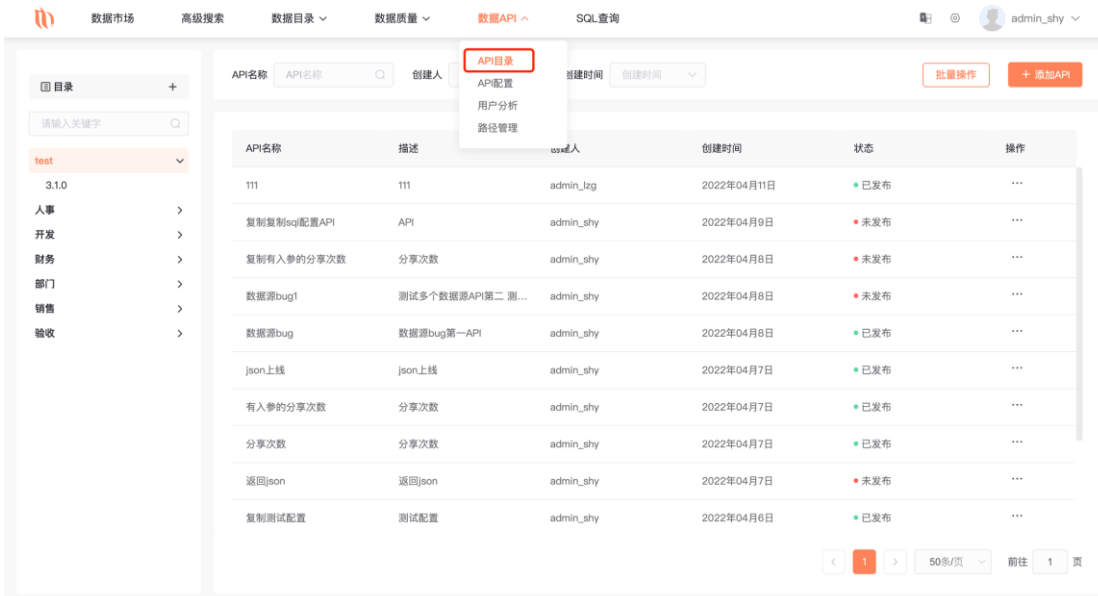


3.6 Data API

3.6.1 API Catalog

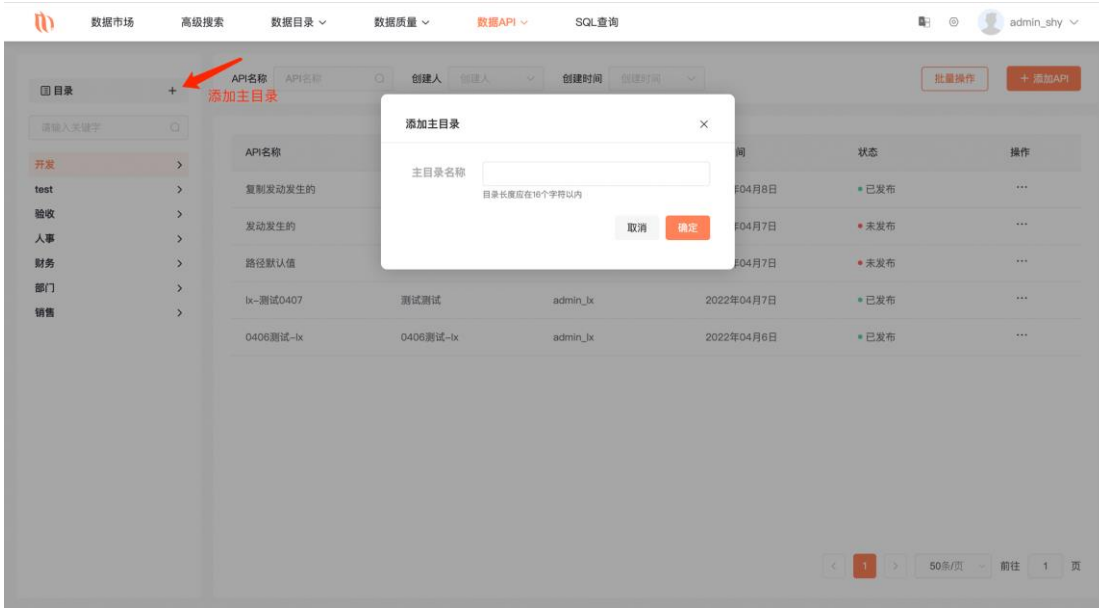
3.6.1.1 Add

Click "+" next to "Catalog" to add a main catalog. Enter the name and click "Save" in the pop-up.



3.6.1.2 Modify

Admin account needed. Click the modify button in "...", enter the name, hit Enter to modify.

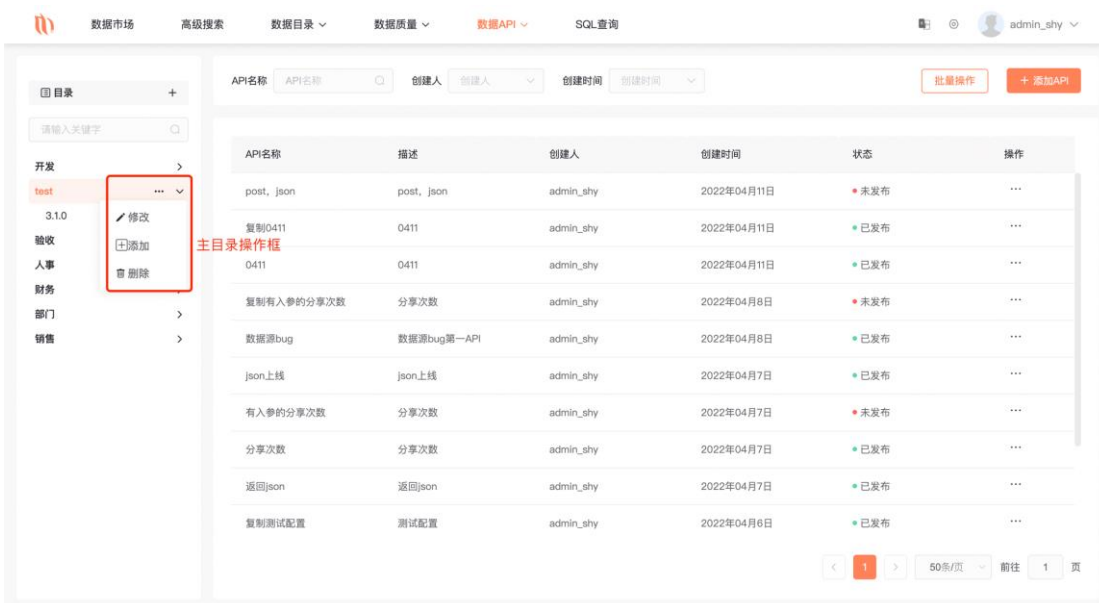


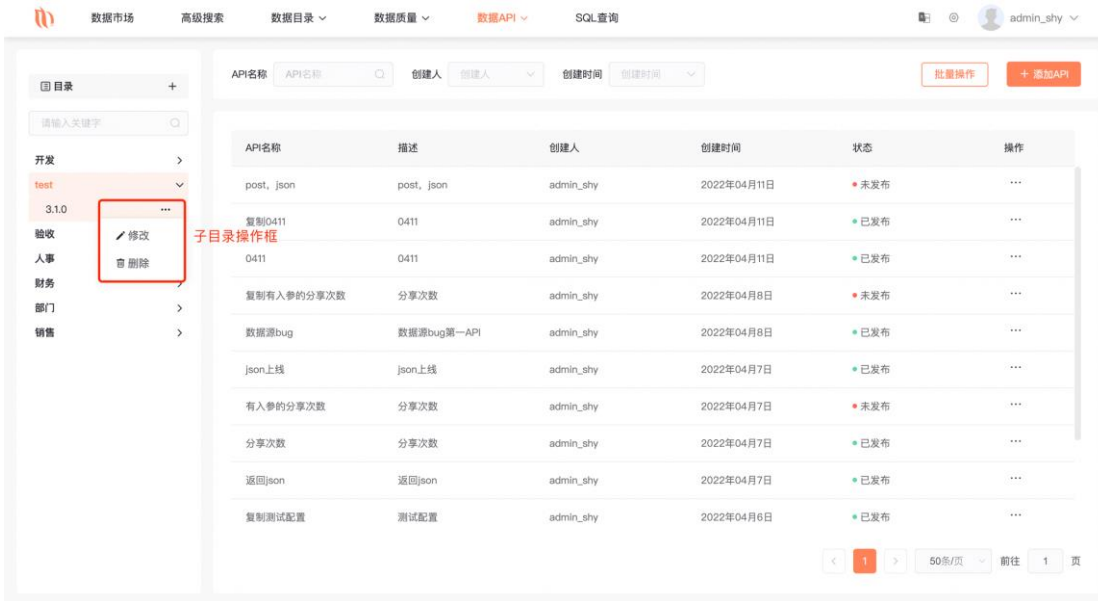
3.6.1.3 Delete

Admin account needed. Click "Delete" in "...", confirm and delete in the pop-up.

3.6.1.4 Add Subcatalog

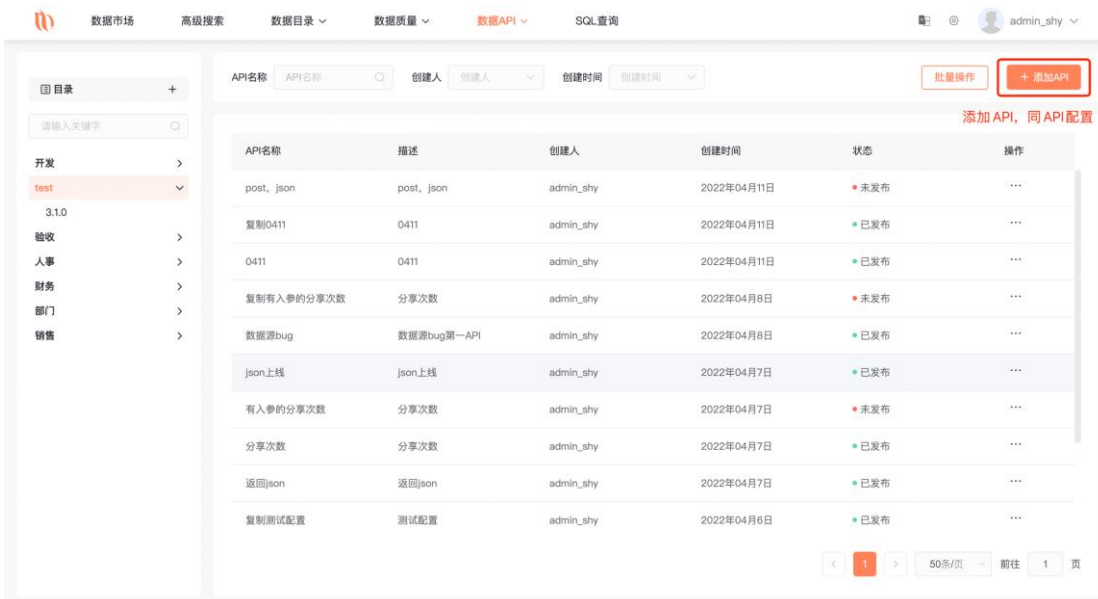
Admin account needed. Click "Add" in "...", enter the name, hit Enter to create. Subcatalogs support modify, delete.





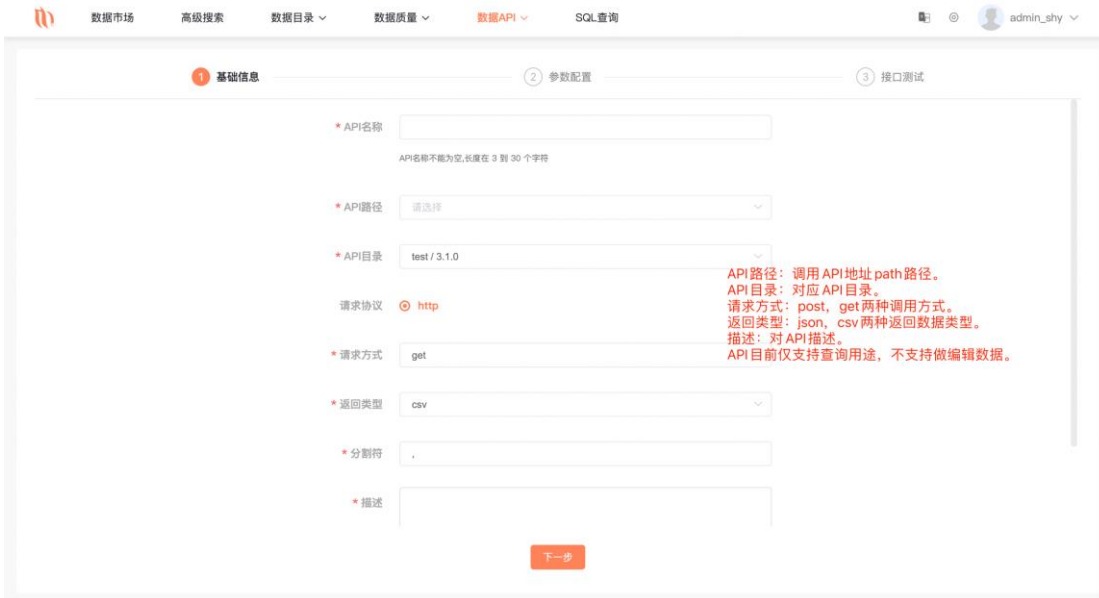
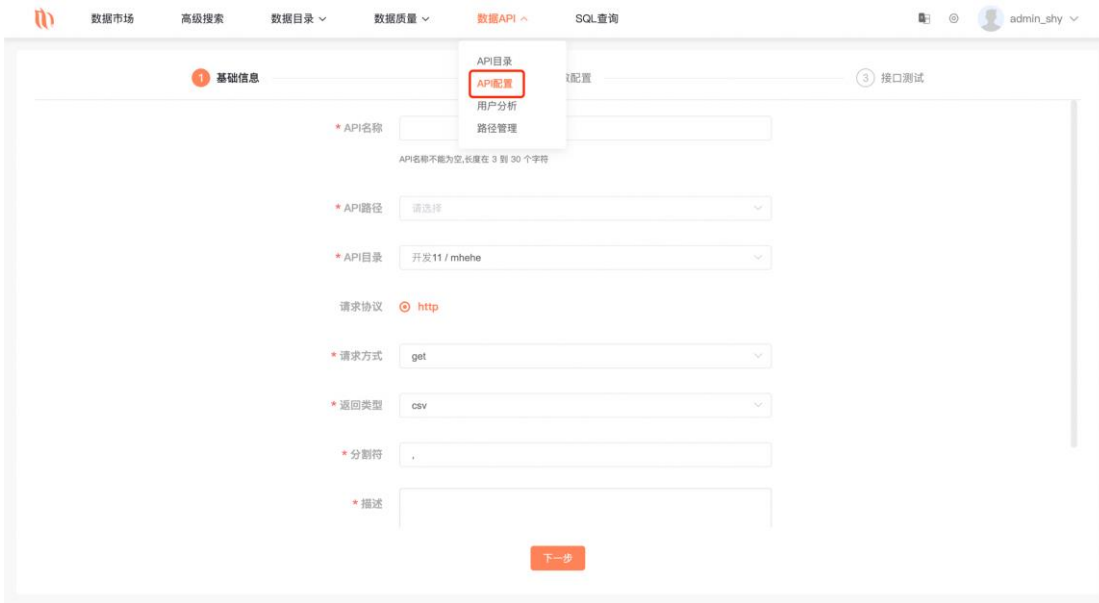
3.6.1.5 Add API

Click "+ Add API" in the top right corner to enter the "API configuration" page.



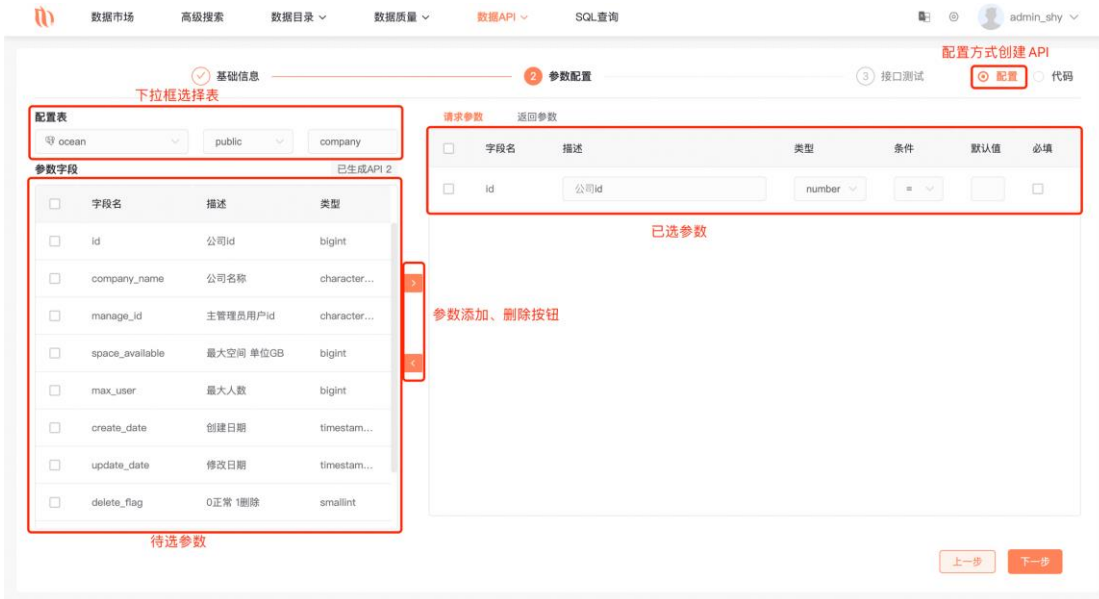
3.6.2 API Configuration

Fill in "API Name," choose "API Path" and "API Group," set "Request Method," "Return Type," and "API Description." Click "Next" after filling in the basic information configuration in the popover and proceed to parameter configuration.



3.6.2.1 Configure Parameters Using "Configuration"

After basic information configuration, transition to the select table page, add "Configuration Table" or the data source, add "Data Table," add "Request Parameters," and "Return Parameters." After selection, click "Next."

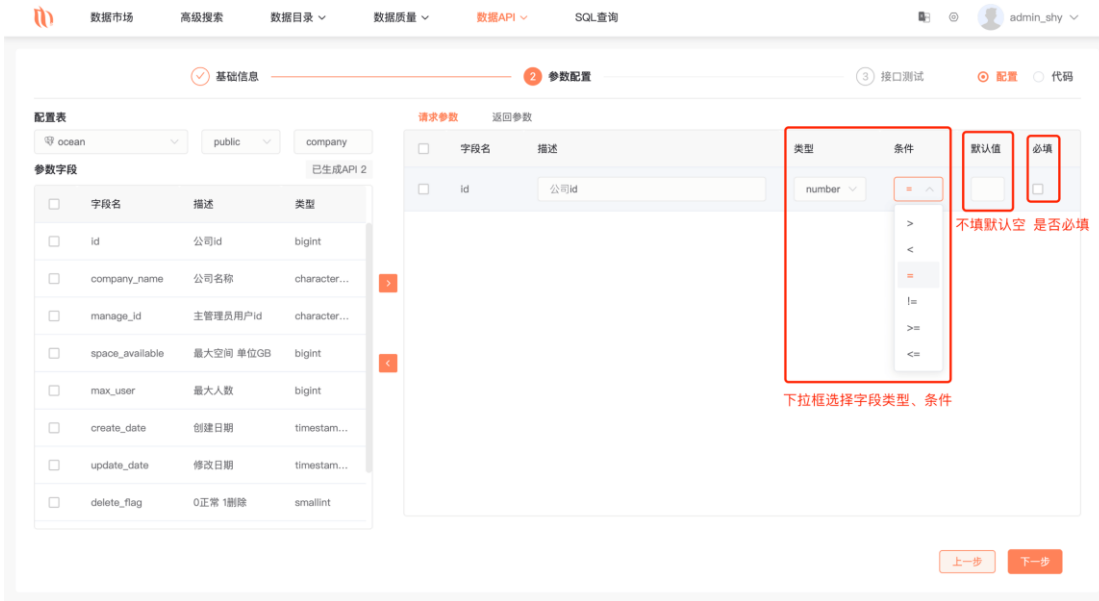


Return parameters are mandatory.



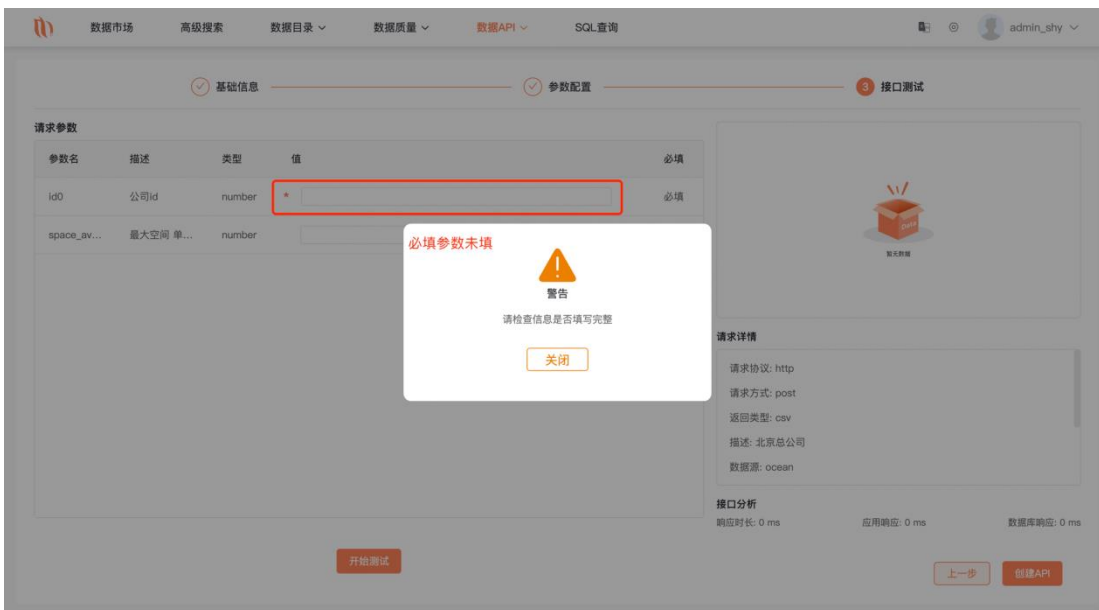
3.6.2.1.1 Add Request Parameters

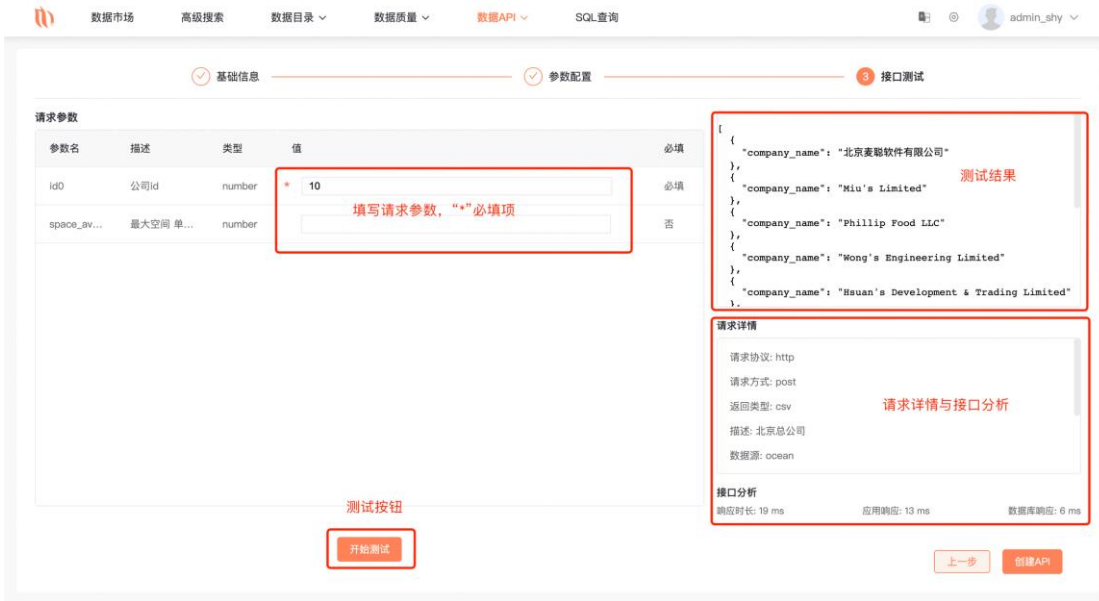
You can describe fields, choose types and conditions, and add default values and required fields. Default values (optional) can be added in subsequent tests and calls. Mandatory (optional) - If you don't click "Required," you don't have to add parameter values in request parameters. Otherwise, you must.



3.6.2.1.2 Test Interface

Click "Start Testing" to output test results on the right side. Click "Create API" to display the respective API in the API catalog.

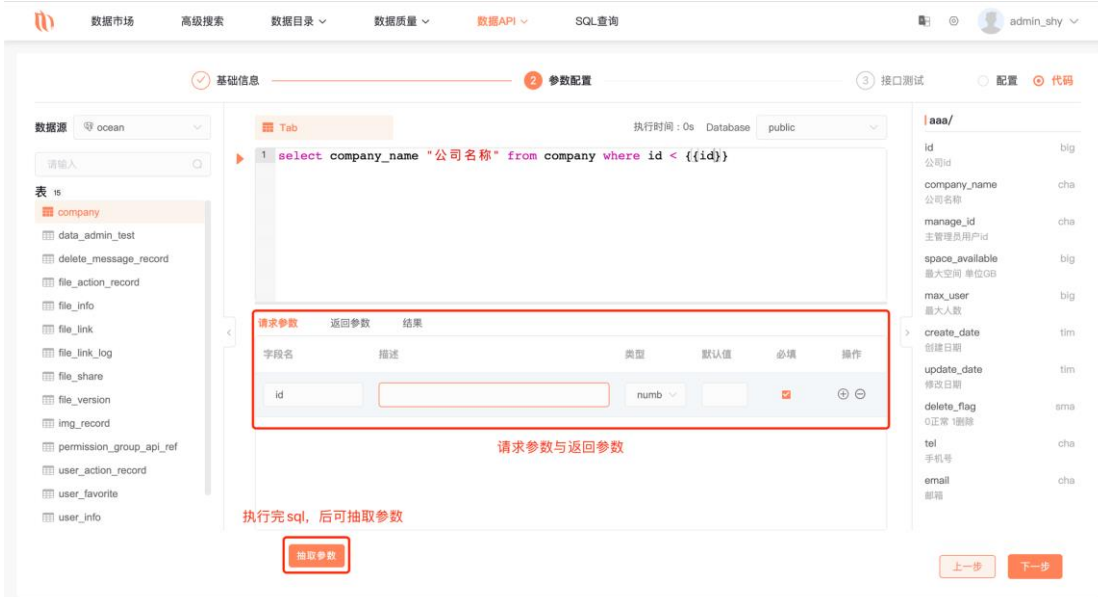
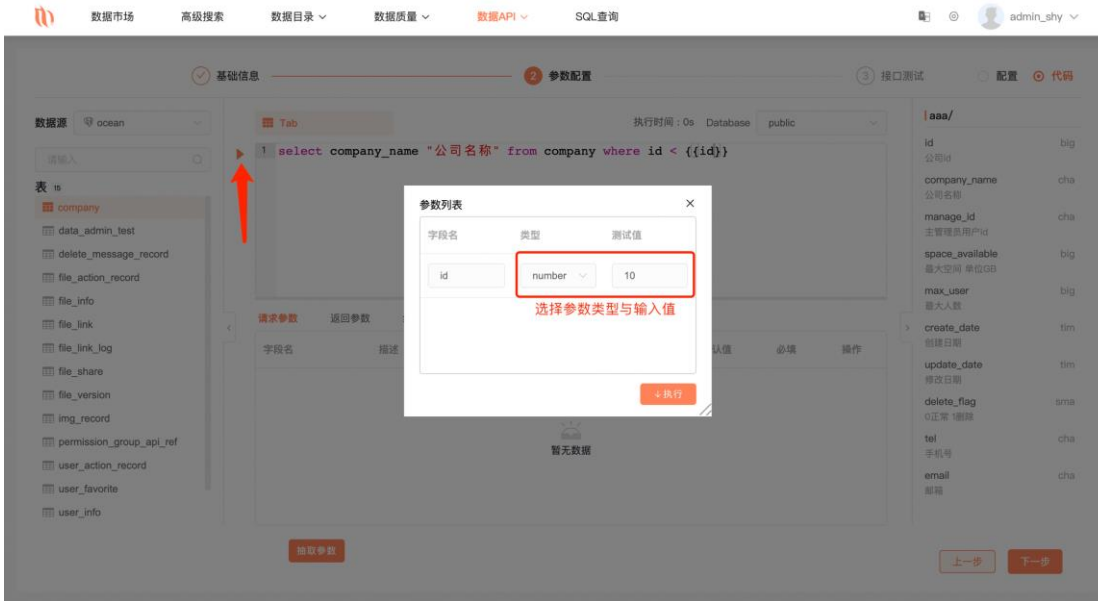




3.6.2.2 Configure Parameters Using "Code"

Add variable search conditions in SQL using "{ { }}" to enclose parameter names. Parameter names can be customized. Avoid adding spaces. Click "Extract Parameters," proceed to the test page similar to API configuration using "Configuration."





Currently, SQL supports the standard SQL syntax, and different data sources support native SQL.

Enter a basic SQL statement as in the example:

```
Select col1, col2, col3 from table
where
col1 > {{para1}}
and col2 = {{para2}}
```

Parameter syntax: Left {{, right }} , no spaces are allowed in parameters.

If you want to set the parameter as optional in the SQL syntax, use < if > at the beginning, < / if > at the end (Note: remove the "must" option in subsequent parameter configurations), as shown below to make para2 optional:

```
Select col1, col2, col3 from table
where
col1 > {{para1}}
< if > and col2 = {{para2}} < / if >
```

***Note:** The syntax for `<if>` and `</if>` when optional is to remove the contained part, so care should be taken to ensure syntactical correctness after removing related statements.

Extract related input and output parameters

Click on the "Auxiliary Extraction" button below the page to help users extract input and output parameters.

Input parameters:

Please check if the data types are correct and you can enter explanations for the parameters. Meanwhile, on the far right, based on point 1, you can set optional or mandatory parameters.

Parameter types usually use number and string types.

Number type is for direct parameter replacement.

The String type will add single quotes before and after the parameter as per SQL syntax, such as parameter city will be replaced by 'city'.

Output parameters:

This part needs particular attention as parameter extraction is prone to inaccuracies. In special cases, you can also use the plus + and minus - buttons on the far right to manually add and reduce for modification.

3.6.3 User Analysis



Display API calling trends per unit period for 1 day, 1 week, 1 month, 1 year; top 5 APIs with most calling time; call rate; and the top 5 most called APIs.



Call information and call details.

展示方式与筛选条件

API名称: 创建人: 调用方: 最近一月

API名称	描述	创建人	创建时间	用时	调用总次数	调用成功次数	调用成功率	操作
json上线	json上线	admin_shy	2022年04月7日	4m8s	25	25	100.00%	调用信息页面
西安演示	20220218	admin	2022年02月18日	30s	14	14	100.00%	调用信息页面
API管理员	API管理员	ocean	2022年04月6日	5s	9	0	0.00%	调用信息页面
0408-1修改名称aaa	重名	admin_shy	2022年04月9日	84.38ms	8	8	100.00%	调用信息页面
返回json	返回json	admin_shy	2022年04月7日	347.00ms	8	8	100.00%	调用信息页面
有人参的分享次数	分享次数	admin_shy	2022年04月7日	335.40ms	5	0	0.00%	调用信息页面
销售培训	描述非常长测试测试asdasds...	admin	2022年02月9日	430.33ms	3	3	100.00%	调用信息页面
测试配置	测试配置	admin_shy	2022年04月6日	354.00ms	3	3	100.00%	调用信息页面
分享次数	分享次数	admin_shy	2022年04月7日	342.50ms	2	2	100.00%	调用信息页面
后端组		admin	2021年10月26日	8m12s	2	1	50.00%	调用信息页面
test111	1111111	admin_lx	2022年03月25日	5s	2	2	100.00%	调用信息页面

展示方式与筛选条件

API名称: 创建人: 调用方: 最近一月: 成功

API名称	描述	创建人	创建时间	调用方	调用时间	用时	总行数	状态	操作
json上线	json上线	admin_shy	2022年04月7日	admin	2022-04-12 09:43:12	29m7s	13996781	成功	调用信息页面
json上线	json上线	admin_shy	2022年04月7日	admin_shy	2022-04-11 15:21:45	29m14s	13996781	成功	调用信息页面
json上线	json上线	admin_shy	2022年04月7日	114.253.247.93:CdEM	2022-04-11 11:55:12	340ms	20	成功	调用信息页面
json上线	json上线	admin_shy	2022年04月7日	114.253.247.93:CdEM	2022-04-11 11:14:28	348ms	20	成功	调用信息页面
json上线	json上线	admin_shy	2022年04月7日	114.253.247.93:CdEM	2022-04-11 11:09:59	343ms	20	成功	调用信息页面
json上线	json上线	admin_shy	2022年04月7日	114.253.247.93:Tkmk	2022-04-11 11:07:43	345ms	20	成功	调用信息页面
json上线	json上线	admin_shy	2022年04月7日	114.253.247.93:Tkmk	2022-04-11 11:07:07	321ms	20	成功	调用信息页面
json上线	json上线	admin_shy	2022年04月7日	114.253.247.93:Tkmk	2022-04-11 11:05:46	451ms	20	成功	调用信息页面
测试配置	测试配置	admin_shy	2022年04月6日	114.253.247.93:T147	2022-04-11 10:25:13	349ms	136	成功	调用信息页面
测试配置	测试配置	admin_shy	2022年04月6日	114.253.247.93:T147	2022-04-11 10:24:33	358ms	136	成功	调用信息页面
测试配置	测试配置	admin_shy	2022年04月6日	114.253.247.93:T147	2022-04-11 10:23:52	355ms	136	成功	调用信息页面

名称	json上线	调用状态	成功/下载 13998781 行
描述	json上线	调用方	admin_shy
数据源	ocean.public	调用次数	25
表	public.company	调用时间	响应时长: 29m14s 应用响应: 29m14s, 数据库响应: 12ms
SQL语句	select company_name from public.company where id<={{id}}		

3.6.4 API Path Management

API path management includes main catalog and subcatalogs. Each main catalog has a "+" to add subcatalogs within that main catalog. There is a "+" on the right side of the catalog row to add main directories. A search box is below the row to quickly search for main or subcatalogs by keyword. When a main catalog is selected, it shows all the APIs under that catalog.

API名称	描述	创建人	创建时间	状态
东方明珠	2022	admin	2022年02月16日	已发布
公司测试	12345	diyn2022	2022年02月8日	已发布
salesshanghai		admin	2021年10月29日	未发布
公司名	公司名	admin	2021年10月27日	未发布

数据市场 高级搜索 数据目录 数据质量 数据API SQL查询 admin_shy

路径管理 + 增加主路径

请输入关键字

1234 0 可搜索目录

aaa 0

AAAAAAAAAAAAAAAA...

haha 18

hehe 18

hr 4

new111 0

sales 4

service 29

ThisisaveryThis 0

API名称	描述	创建人	创建时间	状态
复制复制复制sql配置API	sql配置API	admin_shy	2022年04月9日	已发布
复制复制sql配置API	sql配置API	admin_shy	2022年04月9日	未发布
复制有入参的分享次数	分享次数	admin_shy	2022年04月8日	未发布
111复制sql配置API	sql配置API	admin	2022年04月8日	已发布
数据源bug	数据源bug第一API	admin_shy	2022年04月8日	已发布
路径默认值	路径默认值	admin_shy	2022年04月7日	未发布
有入参的分享次数	分享次数	admin_shy	2022年04月7日	已发布
分享次数	分享次数	admin_shy	2022年04月7日	已发布
API管理员	API管理员	ocean	2022年04月6日	已发布
复制sql配置API	sql配置API	admin_shy	2022年04月6日	已发布
复制测试配置	测试配置	admin_shy	2022年04月6日	已发布
测试配置	测试配置	admin_shy	2022年04月6日	已发布

展示选中目录下所有API

50条/页 前往 1 页

数据市场 高级搜索 数据目录 数据质量 数据API SQL查询 admin_shy

路径管理 +

请输入关键字

1234 0

aaa 0

AAAAAAAAAAAAAAAA...

haha 18

hehe 18

hr 4

new111 0

sales 4

service 29

ThisisaveryThis 0

主目录操作框

+ 添加

删除

API名称	描述	创建人	创建时间	状态
复制复制复制sql配置API	sql配置API	admin_shy	2022年04月9日	已发布
复制复制sql配置API	sql配置API	admin_shy	2022年04月9日	未发布
复制有入参的分享次数	分享次数	admin_shy	2022年04月8日	未发布
111复制sql配置API	sql配置API	admin	2022年04月8日	已发布
数据源bug	数据源bug第一API	admin_shy	2022年04月8日	已发布
路径默认值	路径默认值	admin_shy	2022年04月7日	未发布
有入参的分享次数	分享次数	admin_shy	2022年04月7日	已发布
分享次数	分享次数	admin_shy	2022年04月7日	已发布
API管理员	API管理员	ocean	2022年04月6日	已发布
复制sql配置API	sql配置API	admin_shy	2022年04月6日	已发布
复制测试配置	测试配置	admin_shy	2022年04月6日	已发布
测试配置	测试配置	admin_shy	2022年04月6日	已发布

50条/页 前往 1 页

数据市场 高级搜索 数据目录 数据质量 数据API SQL查询 admin_shy

路径管理 +

请输入关键字

1234 0

aaa 0

AAAAAAAAAAAAAAAA...

haha 18

hehe 18

hr 4

new111 0

sales 4

service 29

ThisisaveryThis 0

子目录操作框

删除

API名称	描述	创建人	创建时间	状态
复制复制复制sql配置API	sql配置API	admin_shy	2022年04月9日	已发布
复制复制sql配置API	sql配置API	admin_shy	2022年04月9日	未发布
复制有入参的分享次数	分享次数	admin_shy	2022年04月8日	未发布
111复制sql配置API	sql配置API	admin	2022年04月8日	已发布
数据源bug	数据源bug第一API	admin_shy	2022年04月8日	已发布
路径默认值	路径默认值	admin_shy	2022年04月7日	未发布
有入参的分享次数	分享次数	admin_shy	2022年04月7日	已发布
分享次数	分享次数	admin_shy	2022年04月7日	已发布
API管理员	API管理员	ocean	2022年04月6日	已发布
复制sql配置API	sql配置API	admin_shy	2022年04月6日	已发布
复制测试配置	测试配置	admin_shy	2022年04月6日	已发布
测试配置	测试配置	admin_shy	2022年04月6日	已发布

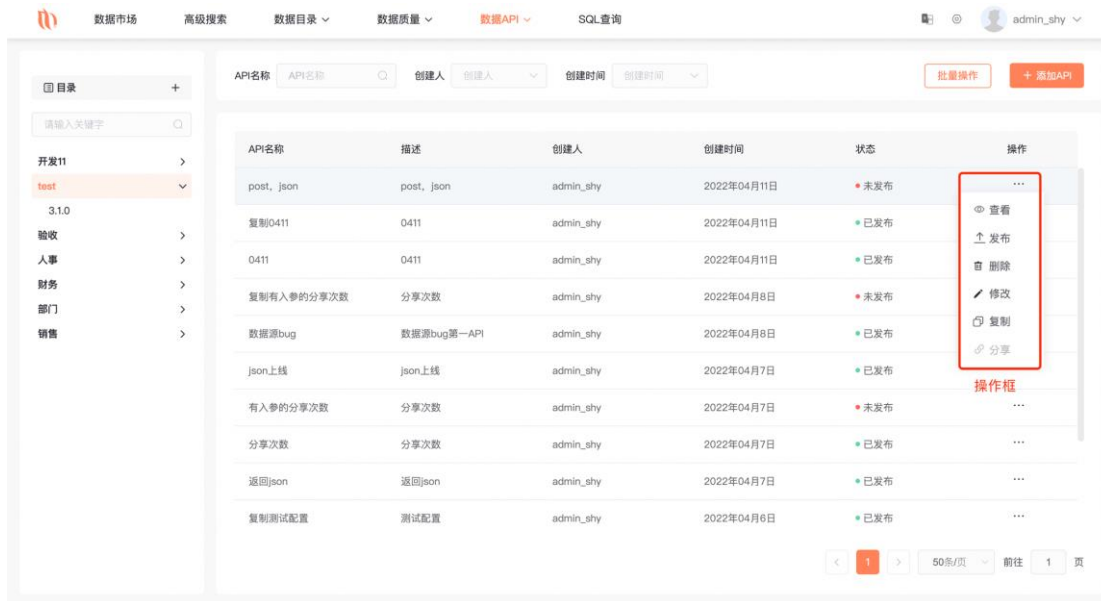
50条/页 前往 1 页

3.6.5 API Management

View all APIs based on directories.

3.6.5.1 Operation Box

Click "... " on the right to view operation buttons.

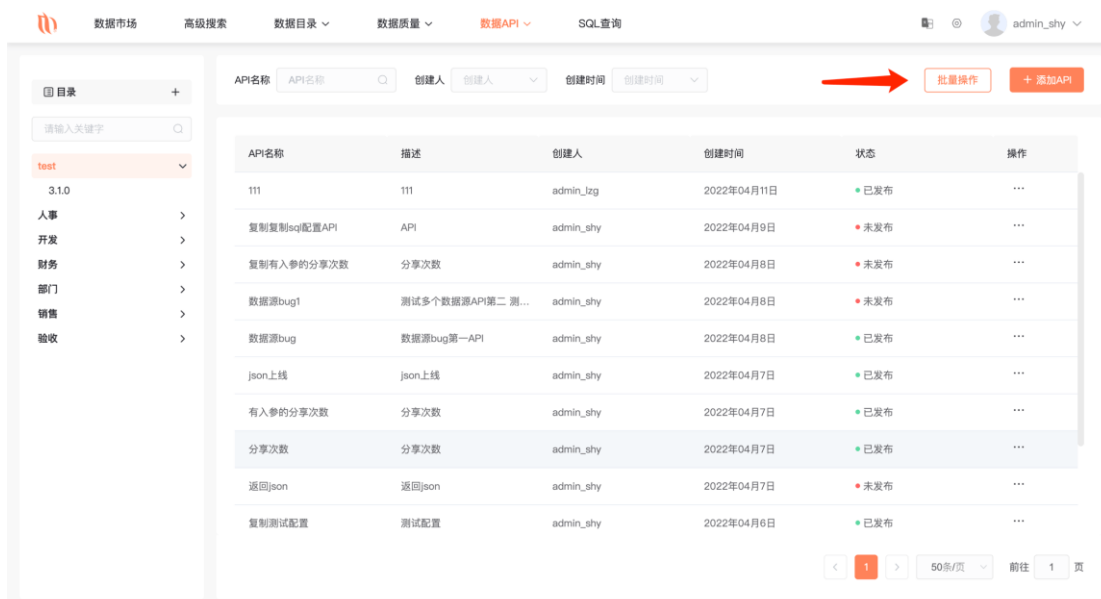


The screenshot shows the API Management interface with a table of APIs. A red box highlights the operation menu for a selected API, which includes options like '查看' (View), '发布' (Publish), '删除' (Delete), '修改' (Modify), '复制' (Copy), and '分享' (Share).

API名称	描述	创建人	创建时间	状态	操作
post_ json	post_ json	admin_shy	2022年04月11日	未发布	...
复制0411	0411	admin_shy	2022年04月11日	已发布	...
0411	0411	admin_shy	2022年04月11日	已发布	...
复制有入参的分享次数	分享次数	admin_shy	2022年04月8日	未发布	...
数据源bug	数据源bug第一API	admin_shy	2022年04月8日	已发布	...
json上线	json上线	admin_shy	2022年04月7日	已发布	...
有入参的分享次数	分享次数	admin_shy	2022年04月7日	未发布	...
分享次数	分享次数	admin_shy	2022年04月7日	已发布	...
返回json	返回json	admin_shy	2022年04月7日	已发布	...
复制测试配置	测试配置	admin_shy	2022年04月6日	已发布	...

3.6.5.2 Bulk Operations

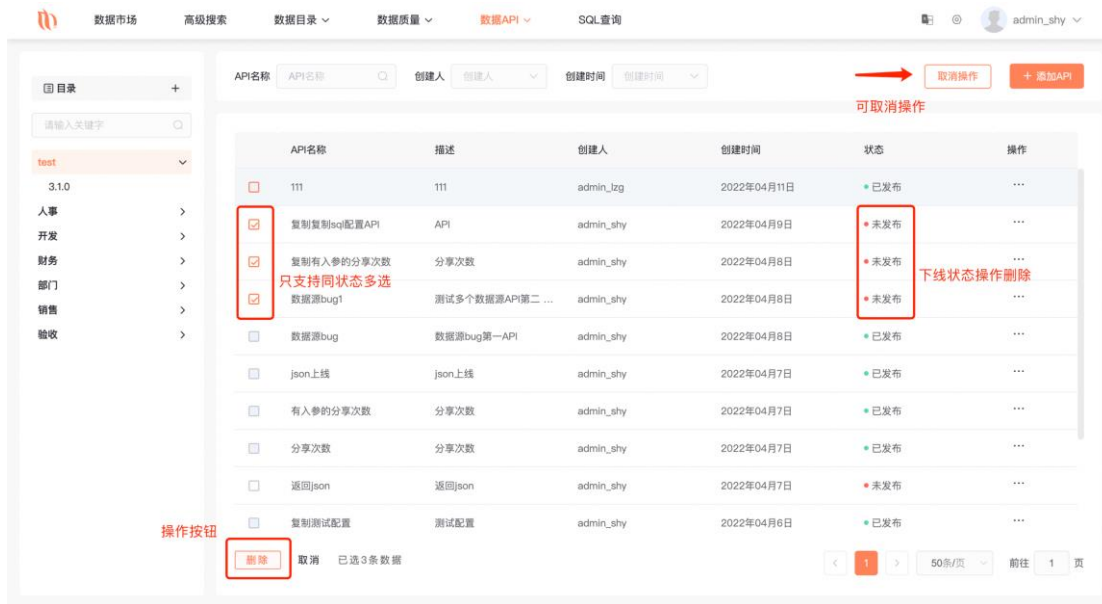
Multiple APIs can be operated simultaneously. Offline and delete cannot be operated simultaneously. If the first chosen API is "published," you can operate bulk offline. If the first chosen API is "unpublished," you can operate bulk delete.



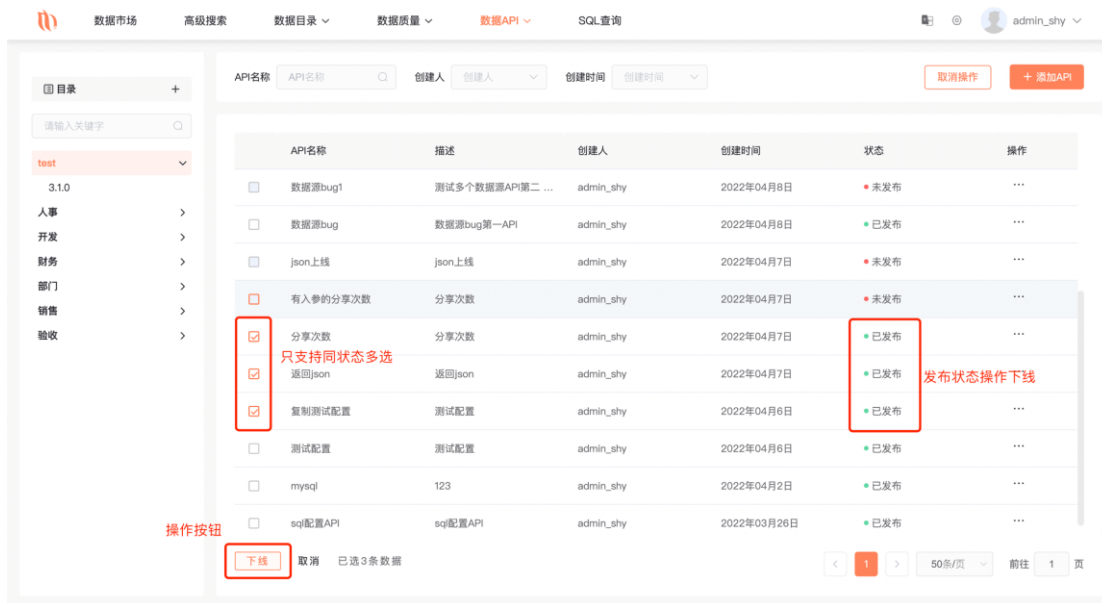
The screenshot shows the API Management interface with a red arrow pointing to the '批量操作' (Bulk Operation) button. The table below shows a list of APIs with various statuses.

API名称	描述	创建人	创建时间	状态	操作
111	111	admin_lzg	2022年04月11日	已发布	...
复制复制sql配置API	API	admin_shy	2022年04月9日	未发布	...
复制有入参的分享次数	分享次数	admin_shy	2022年04月8日	未发布	...
数据源bug1	测试多个数据源API第二 测...	admin_shy	2022年04月8日	未发布	...
数据源bug	数据源bug第一API	admin_shy	2022年04月8日	已发布	...
json上线	json上线	admin_shy	2022年04月7日	已发布	...
有入参的分享次数	分享次数	admin_shy	2022年04月7日	已发布	...
分享次数	分享次数	admin_shy	2022年04月7日	已发布	...
返回json	返回json	admin_shy	2022年04月7日	未发布	...
复制测试配置	测试配置	admin_shy	2022年04月6日	已发布	...

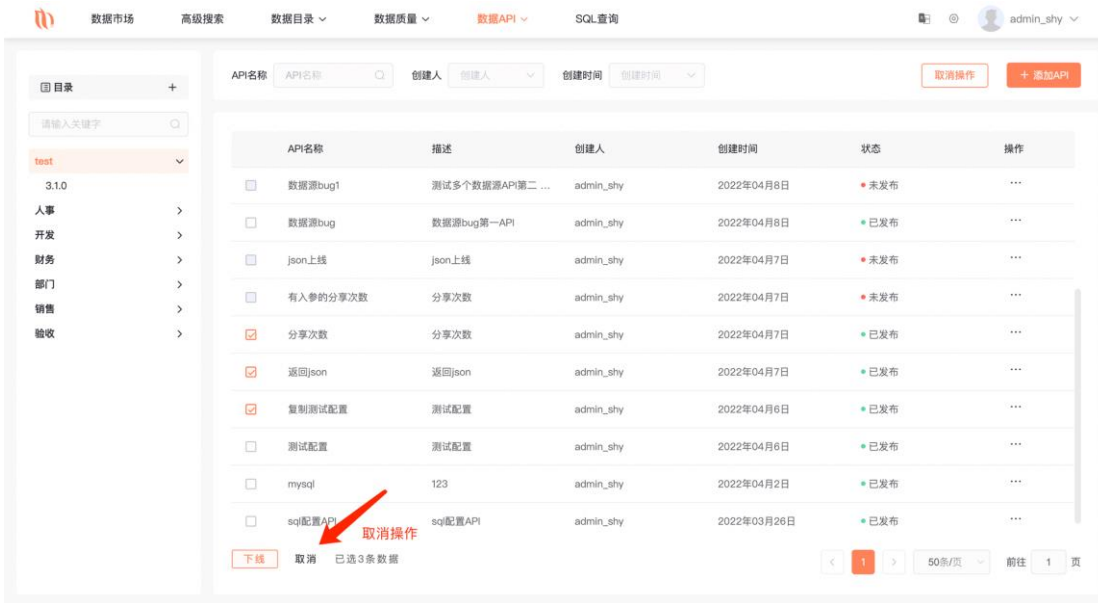
3.6.5.2.1 Delete



3.6.5.2.2 Offline



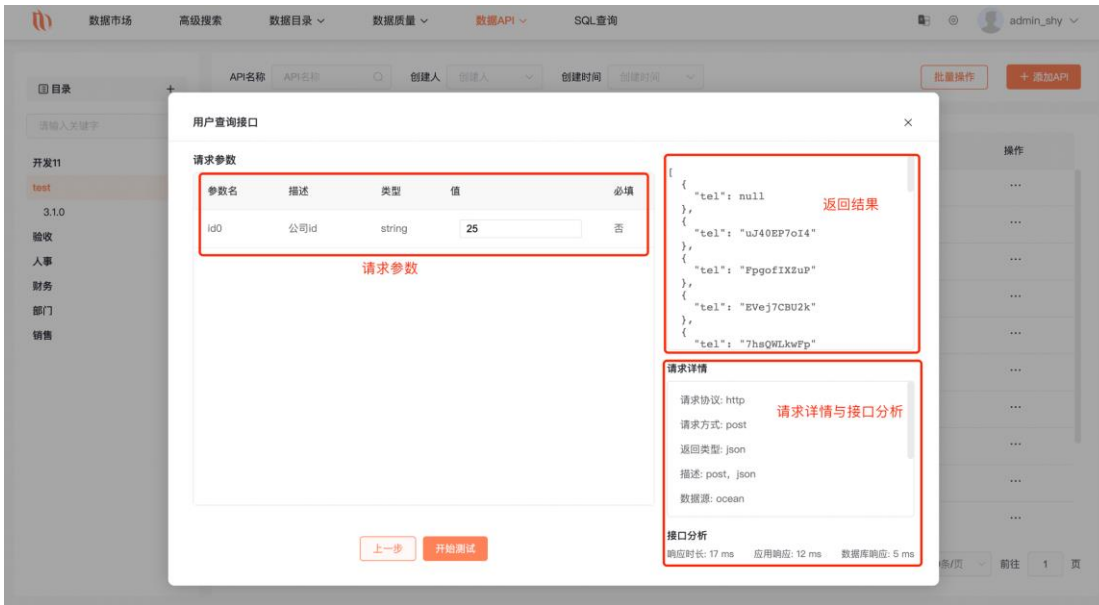
3.6.5.2.3 Cancel Operation



3.6.5.3 View

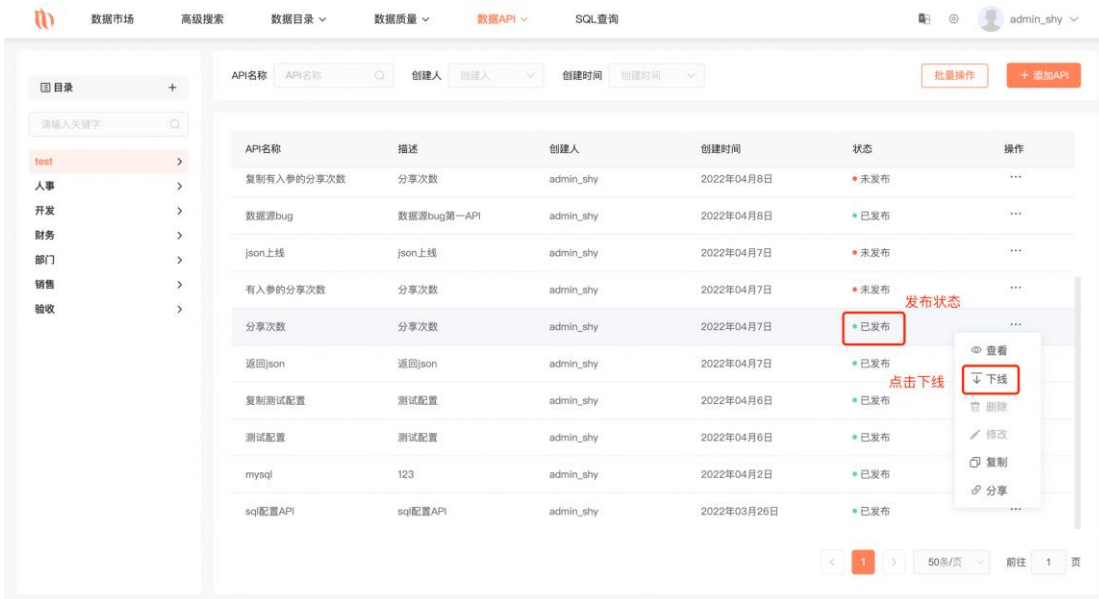
Select an API and click the "View" button in the operations column to see detailed data for "Request Parameters," "Return Parameters," "Paging Parameters," and "Share Records." Click "Enter Call Page" to go to the call page.





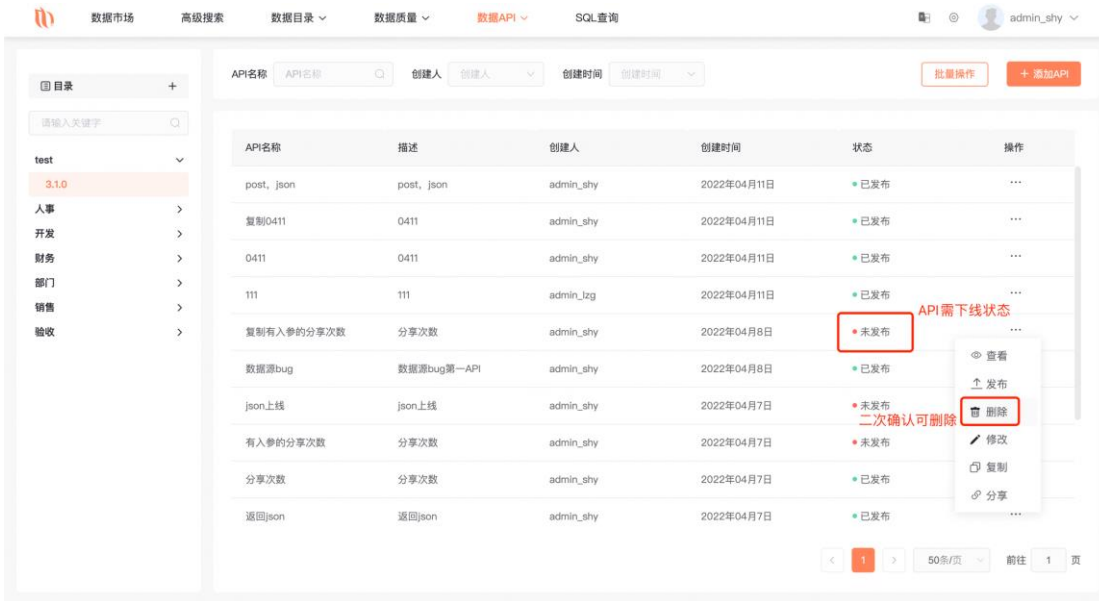
3.6.5.4 Publish & Offline

Click the "Offline" button behind the API to change its status to unpublished. Click "Publish" and the status will change to published.



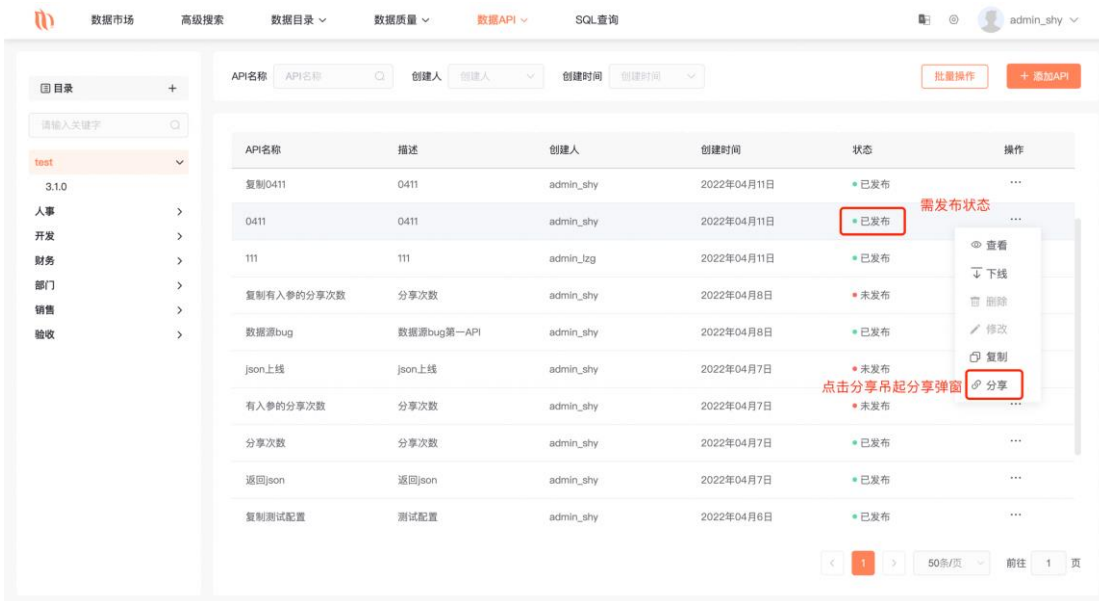
3.6.5.5 Delete API

The API must be taken offline first; click "Delete," and then click "Confirm" to delete successfully.



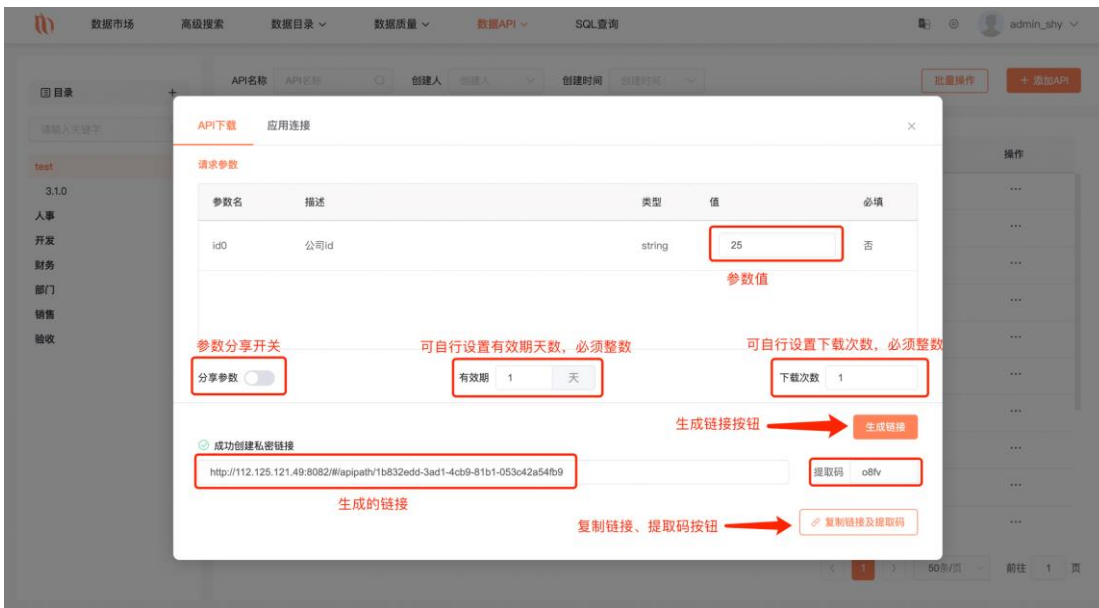
3.6.5.6 Share API

The API must be released first; click "Share" to bring up the "API Download/Application Link" window.



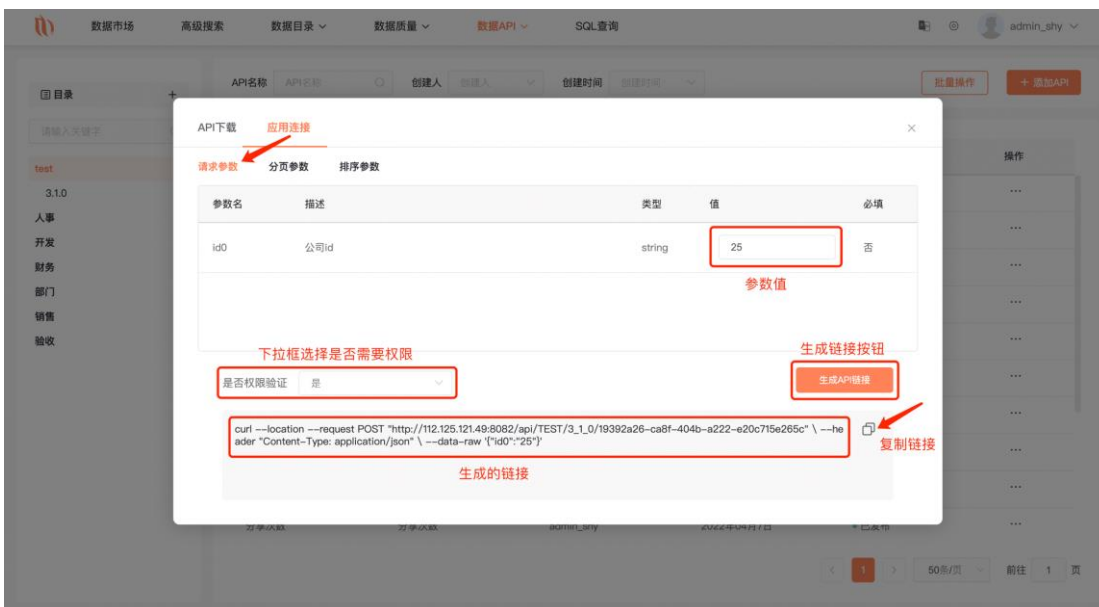
3.6.5.6.1 API Download

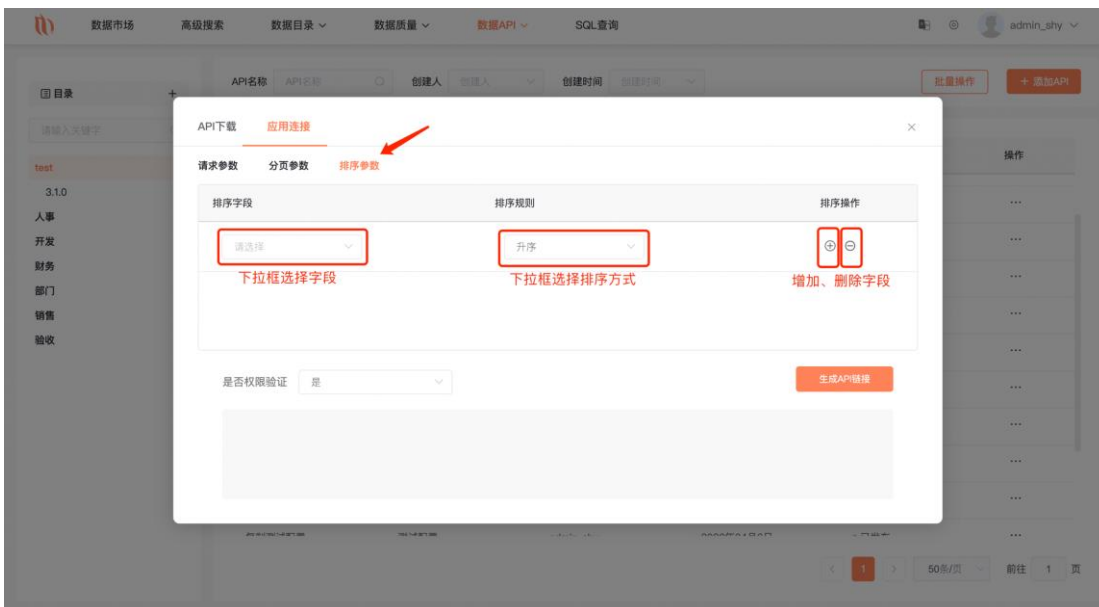
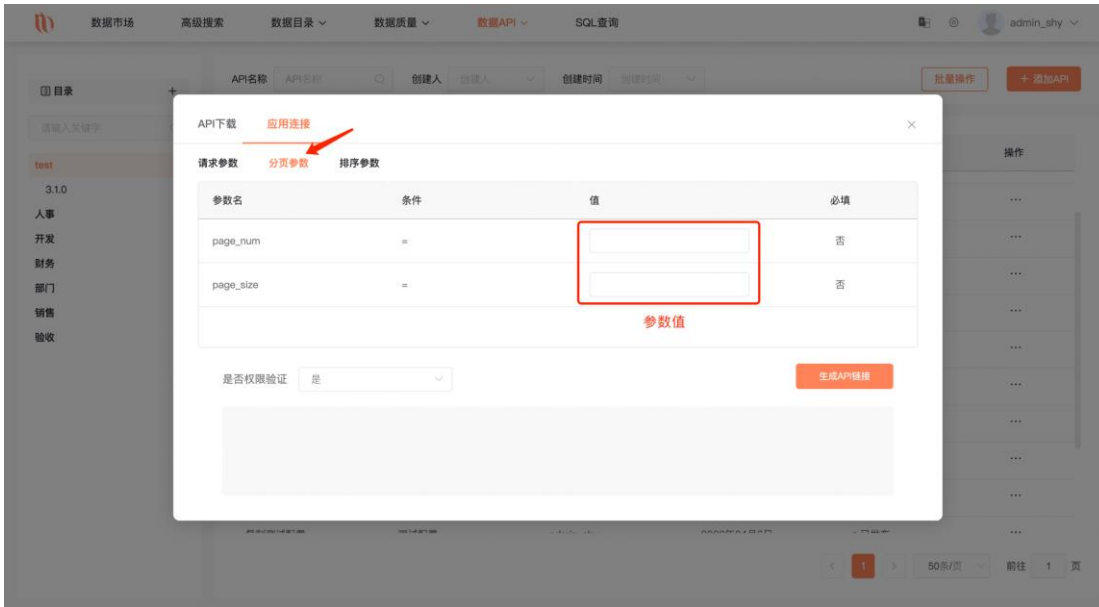
Give business personnel the shared link and extraction code to download API data.



3.6.5.6.2 Application Link

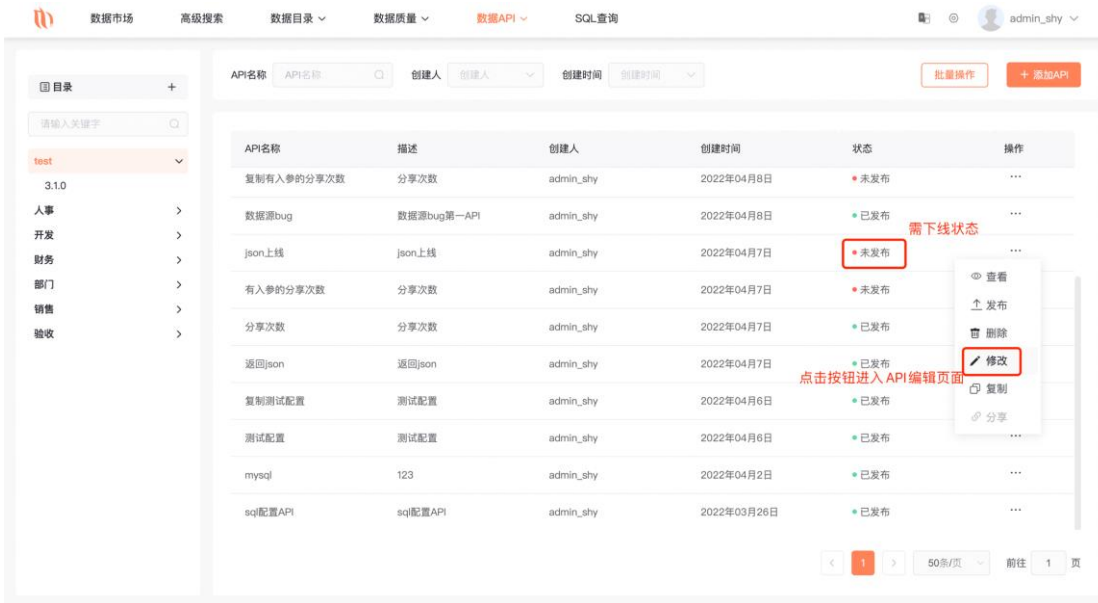
Configure "Permission Verification," "Request Parameters," "Paging Parameters," and "Sorting Parameters" in order, and use postman to call and view. This feature is provided to developers for calling. You can make separate configurations for "Permission Verification" and "Request Parameters" before calling.





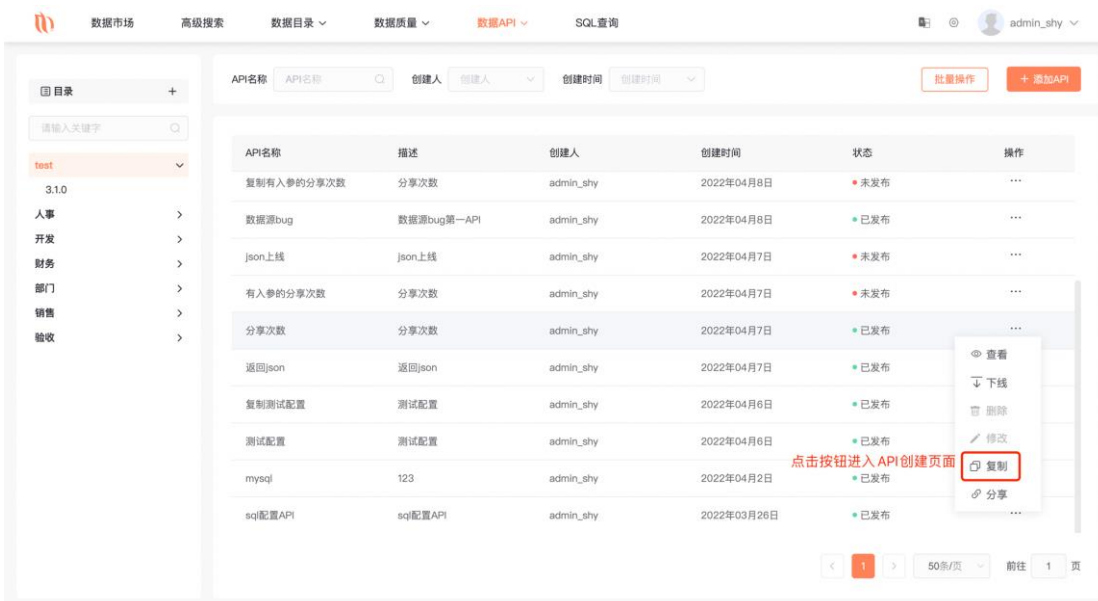
3.6.5.7 Modify API

The API needs to be offline, click the modify button to go to the API editing page.



3.6.5.8 Copy API

Select an API and click the copy button to enter the API creation page; the copied API has parameters that can be modified.



3.7 SQL Query

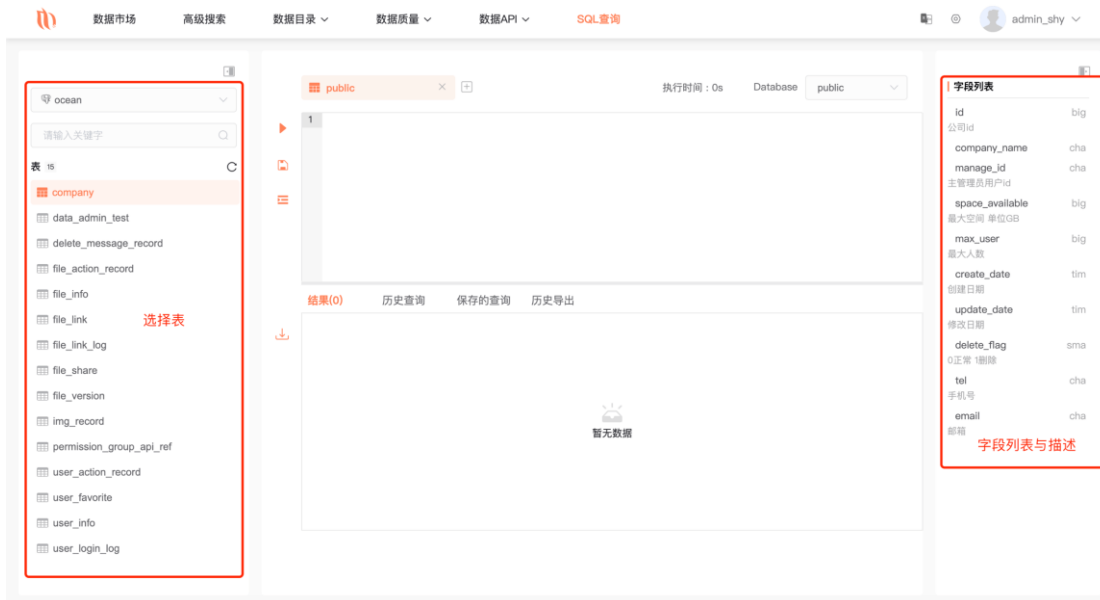
3.7.1 Choose a Database

Click on the dropdown menu to see existing data sources, select the data source to query data, and

search for tables in that data source below.

3.7.2 Choose Data Table

Enter table keywords in the search box; tables containing the keyword will be displayed below. After selecting a table, the field list will display the table's field information.



3.7.3 Operation Box

3.7.3.1 Save

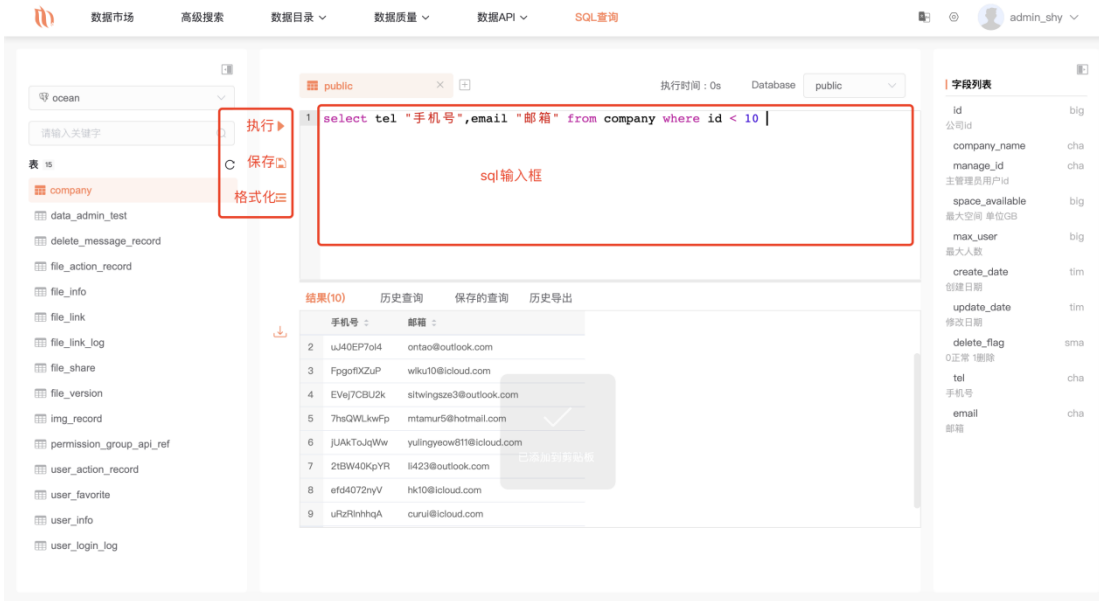
After completing the SQL statement, click "Save," enter the file name to save, and click "Confirm."

3.7.3.2 Run

Enter the SQL and click run to display results.

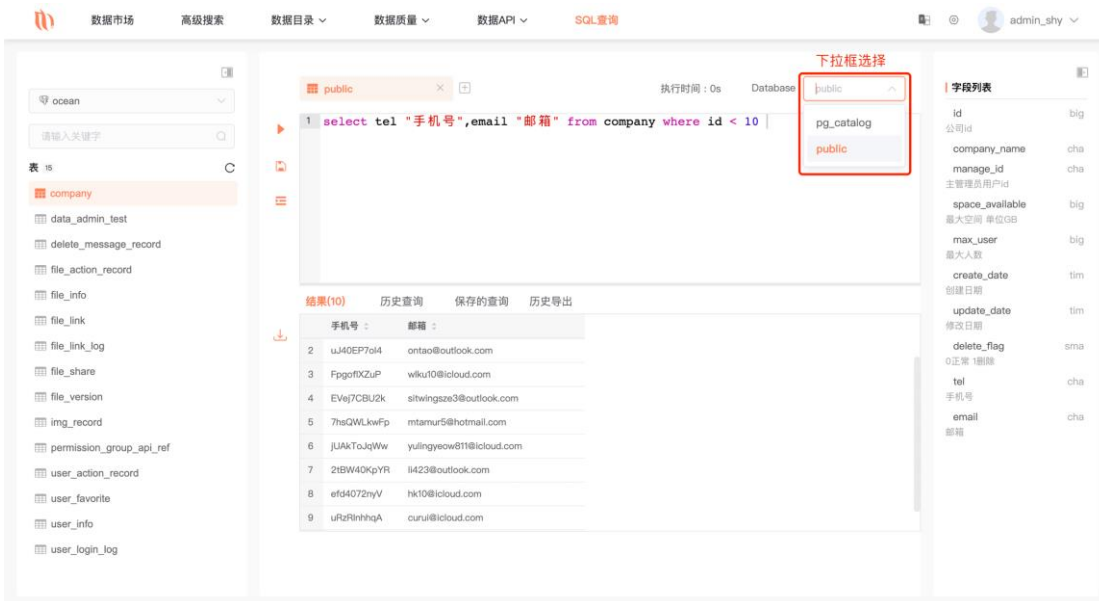
3.7.3.3 Format

Click the button to format the SQL.



3.7.3.4 Database Selection

Currently, only the hadoop selection is supported, and the selected database must be configured under the same "metadata configuration." Supports dropdown selection and keyword search.



3.7.4 Result Box

3.7.4.1 Export

Choose the export method to save the SQL execution results as an Excel file locally.

3.7.4.2 History Query

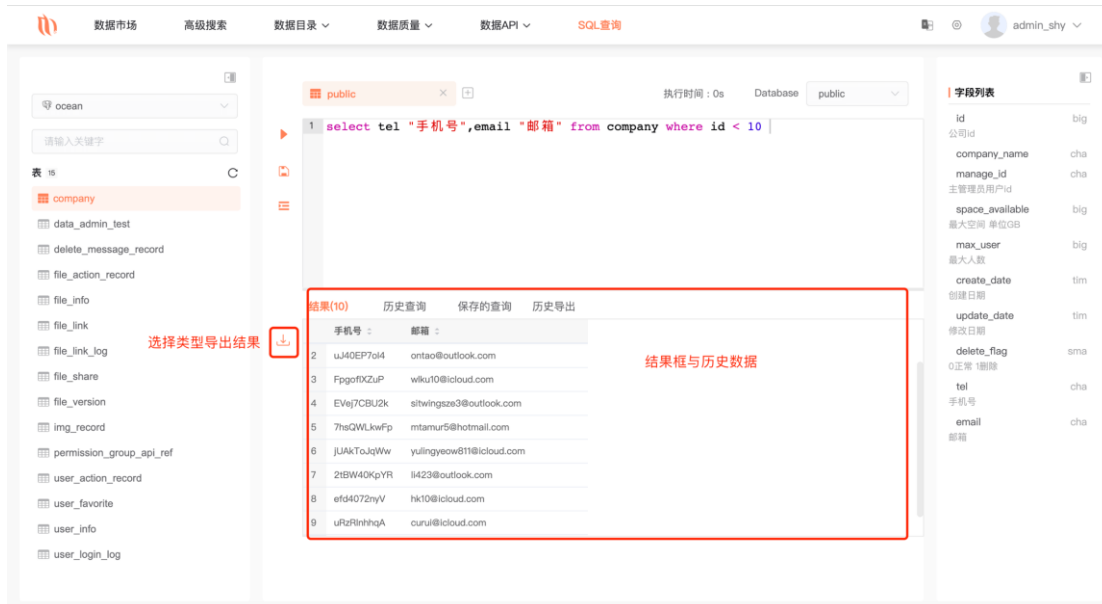
Click to view the history of executed SQL records.

3.7.4.3 Saved Queries

Click to view saved query records.

3.7.4.4 History Export

Click to view the export history records.



3.8 System Settings

Only administrators have permission to operate.

3.8.1 User Management



3.8.1.1 Add User

Click "Add User" in the user management interface's lower left corner, enter the user information and configure the role and group. After confirming the information, click "Create Now" to complete the addition of a new user.

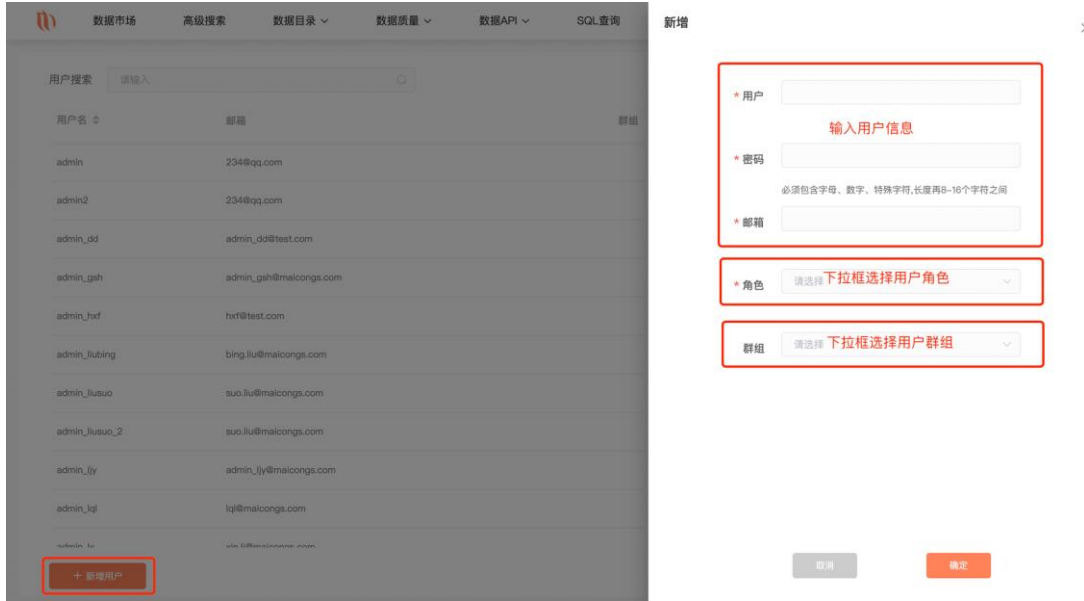
3.8.1.1.1 Role

Different roles correspond to different respective permissions.

角色	业务权限						
	数据超市	高级搜索	数据目录	数据质量	API服务	SQL查询	设置
业务用户	可以访问, 但是数据API需申请权限	无	无	无	无	无	无
普通用户	可以访问, 但是数据API需申请权限	可以搜索元数据, 但是数据样本访问权限需申请, 无数据探查	只读	无	无	可以访问, 但是没有单独授予表权限, 无法执行SQL	无
数据质量管理	可以访问, 但是数据API需申请权限	可以搜索元数据, 但是数据样本访问权限需申请, 可用数据探查	只读	质量报告, 质量配置, 探查选项	无	可以访问, 但是没有单独授予表权限, 无法执行SQL	无
API操作员	可以访问, 但是数据API需申请权限	可以搜索元数据, 但是数据样本访问权限需申请, 无数据探查	只读	无	可在该用户下添加API, 修改自己创建的API	可以访问, 但是没有单独授予表权限, 无法执行SQL	无
数据管理员	所有权限, 无法审批API访问申请	所有权限	所有权限	所有权限	所有权限	所有权限	无
管理员	所有权限	所有权限	所有权限	所有权限	所有权限	所有权限	所有权限 (用户创建, 权限管理, 数据源管理等)

3.8.1.1.2 Group

Choose a group for the user. Different groups have different access permissions. Aside from administrators, who have all rights, other users have whatever permissions belong to the group they are in.



3.8.1.2 Modify User Information

Click the "Edit" button for an existing user, modify user information, click "Modification Completed" when done.

3.8.1.3 Delete User

Click "Delete" on the right of the user, confirm twice, and delete.



3.8.2 Switch Theme

Change the theme color according to your preference.

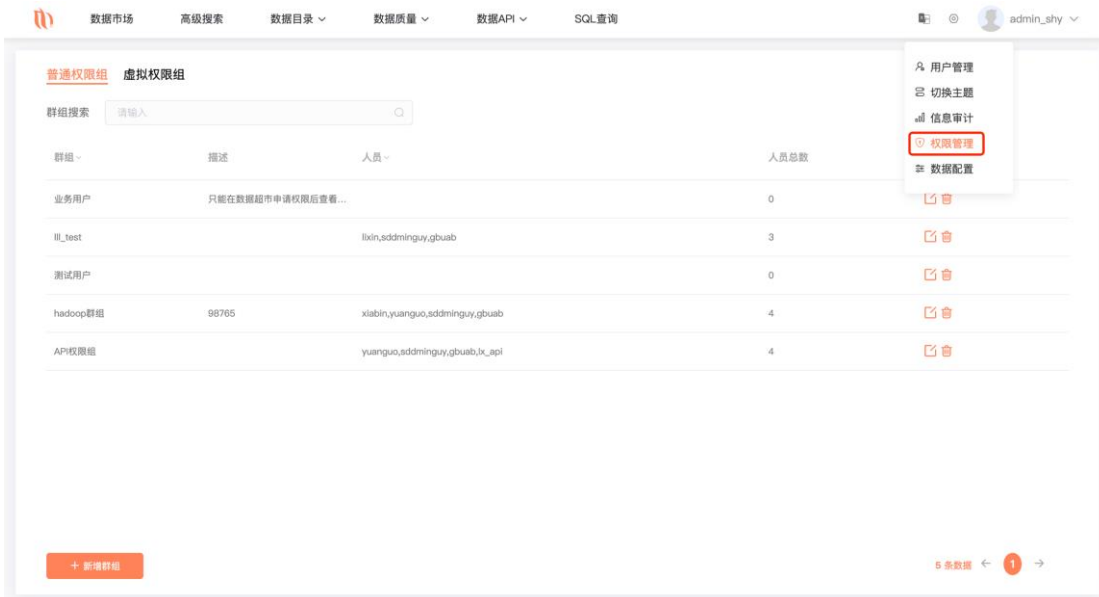


3.8.3 Audit Information

Shows daily user visits and displays visit times and statuses for accounts per page.

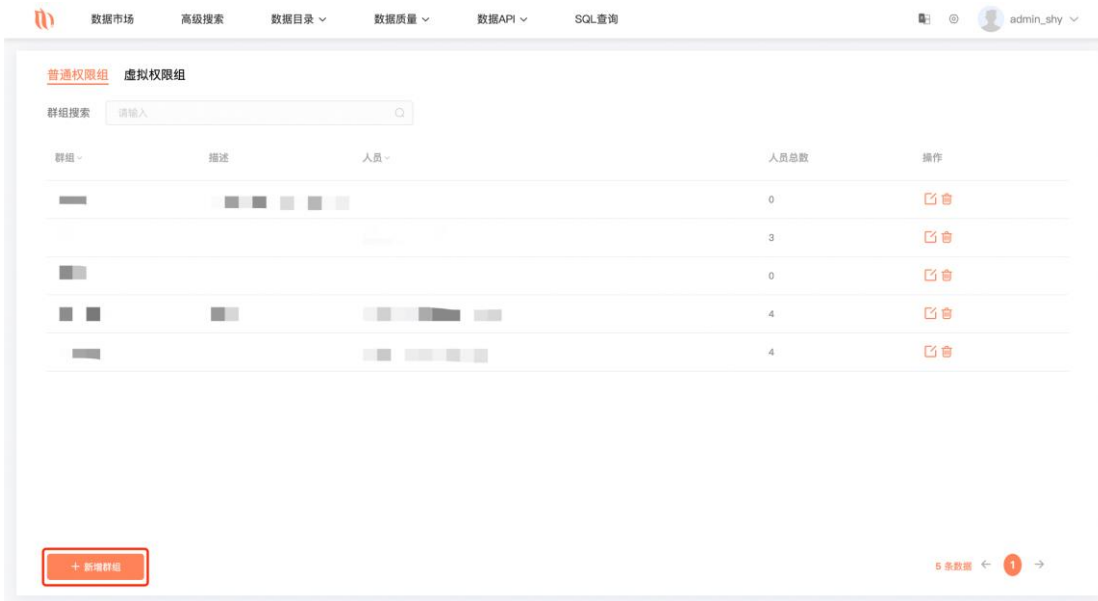


3.8.4 Permission Management

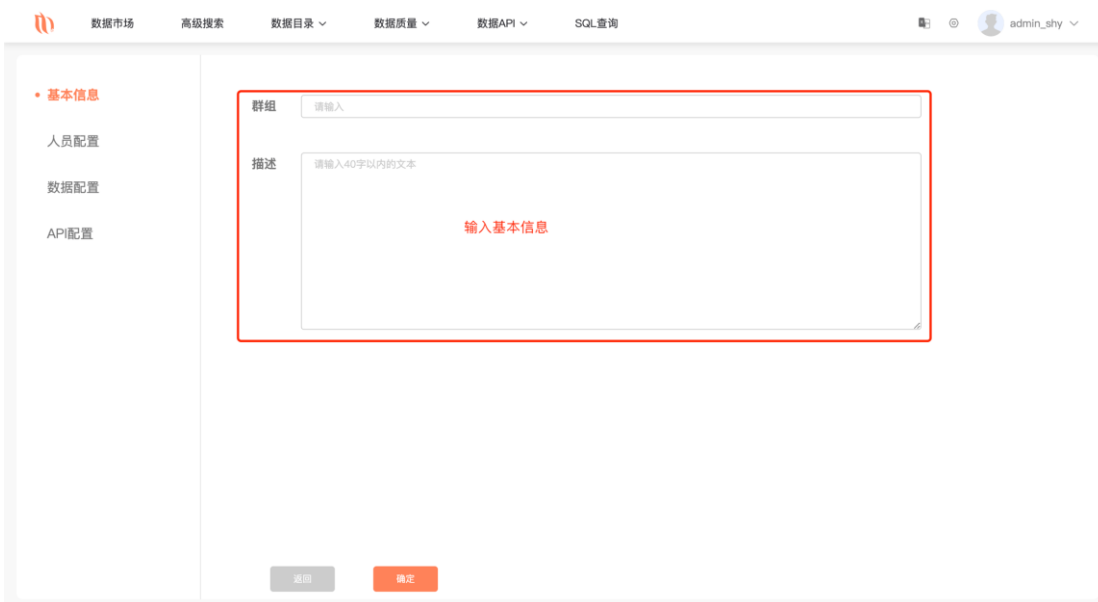


3.8.4.1 Add Permission Group

Click "Permission Settings - Add Group" to enter the "Basic Information" interface, enter the permission group name, add a description, click "Confirm" to add.

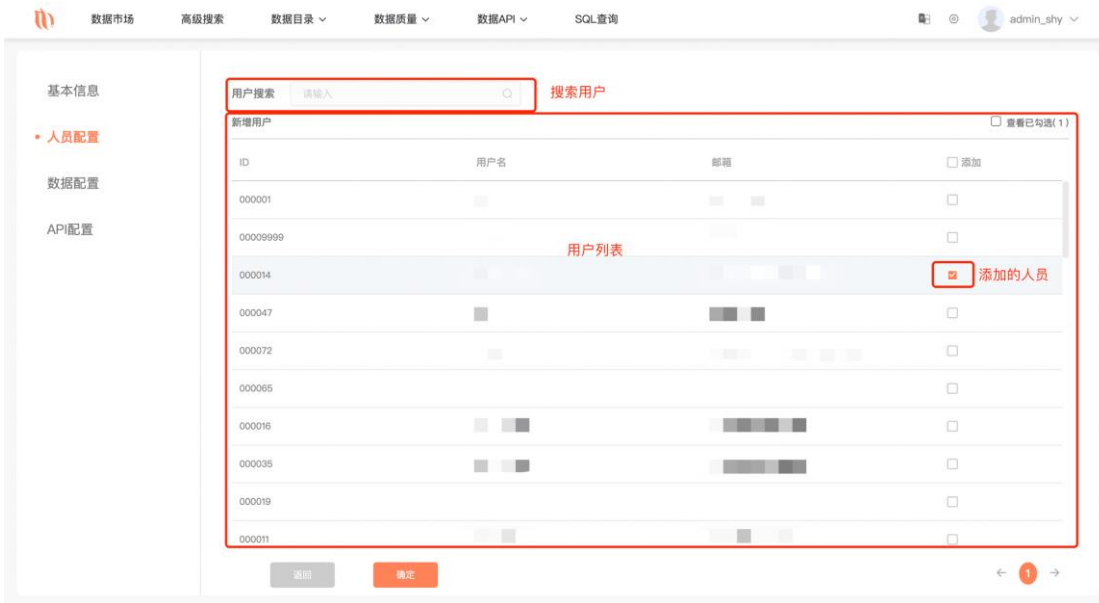


Fill in basic information



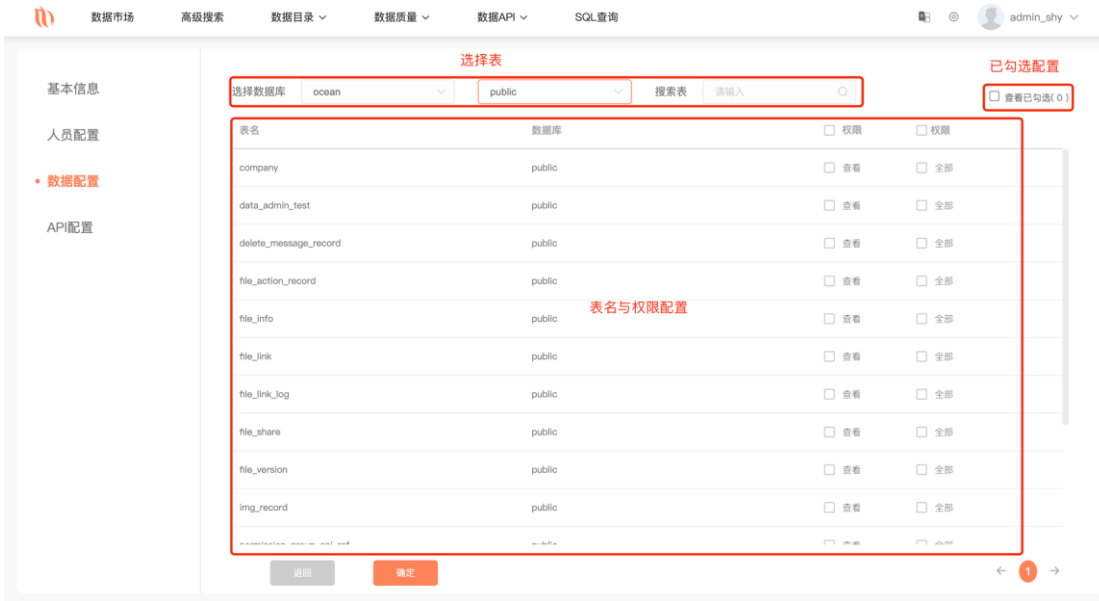
3.8.4.2 Personnel Configuration

Enter "Personnel Configuration," "check" personnel to add. Checked personnel will be added to the newly created group. You can also search for personnel in the search box for quick addition.



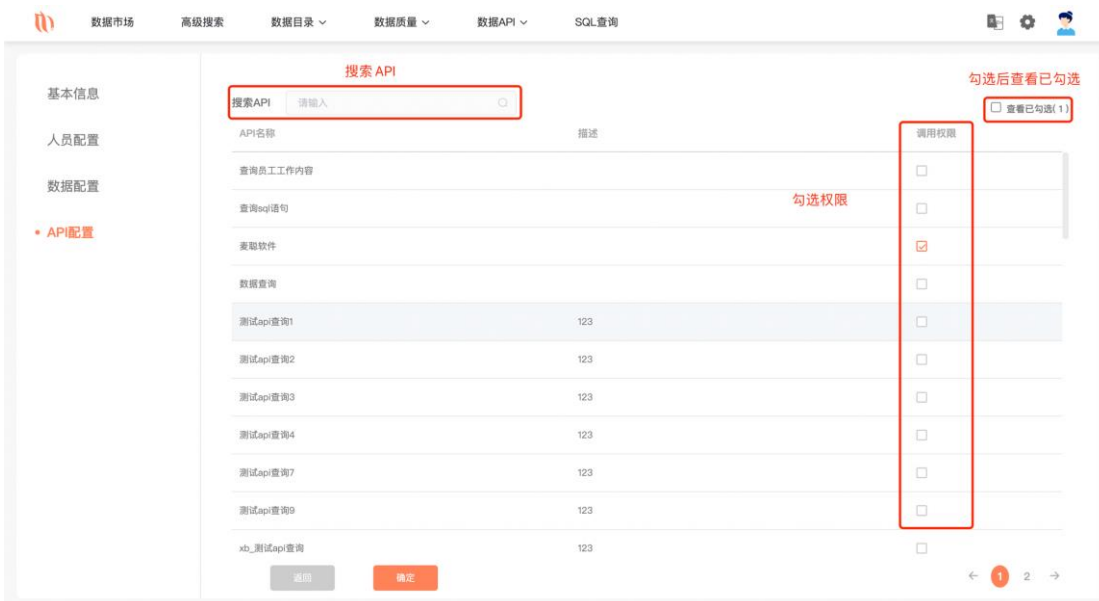
3.8.4.3 Data Configuration

Click "Data Configuration" to set permissions for each library and table for the group, permissions include "View" and "All."



3.8.4.4 API Configuration

Click "API Configuration" to set API calling permissions for the group, click "Confirm" to complete group creation.

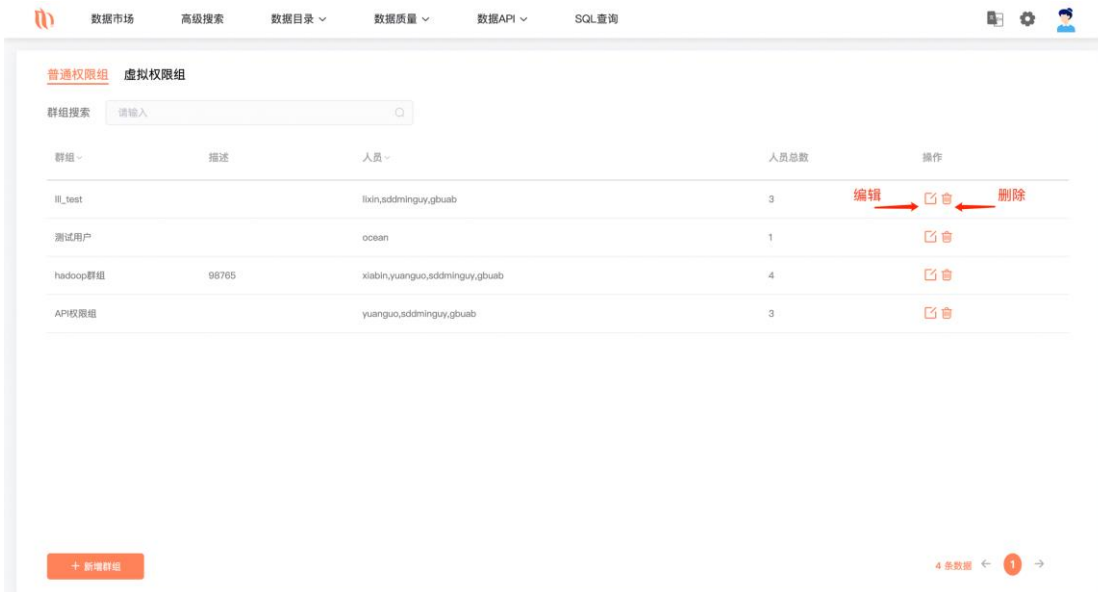


3.8.4.5 Edit Permission Group

Click "Edit" on the right to enter the editing page.

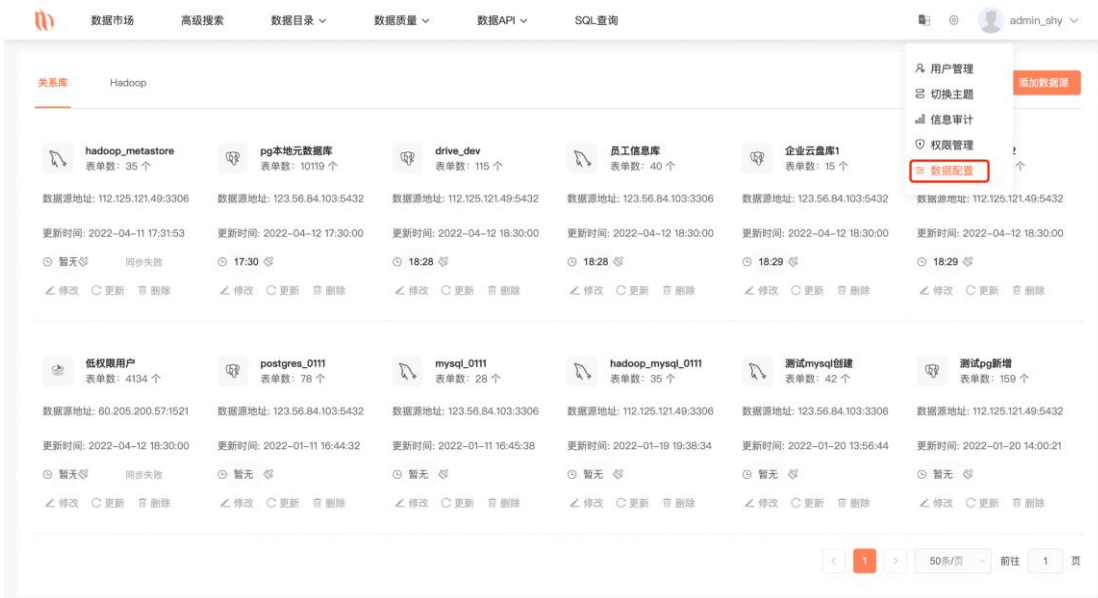
3.8.4.6 Delete Permission Group

Click the "Delete" button on the right to delete the permission group.



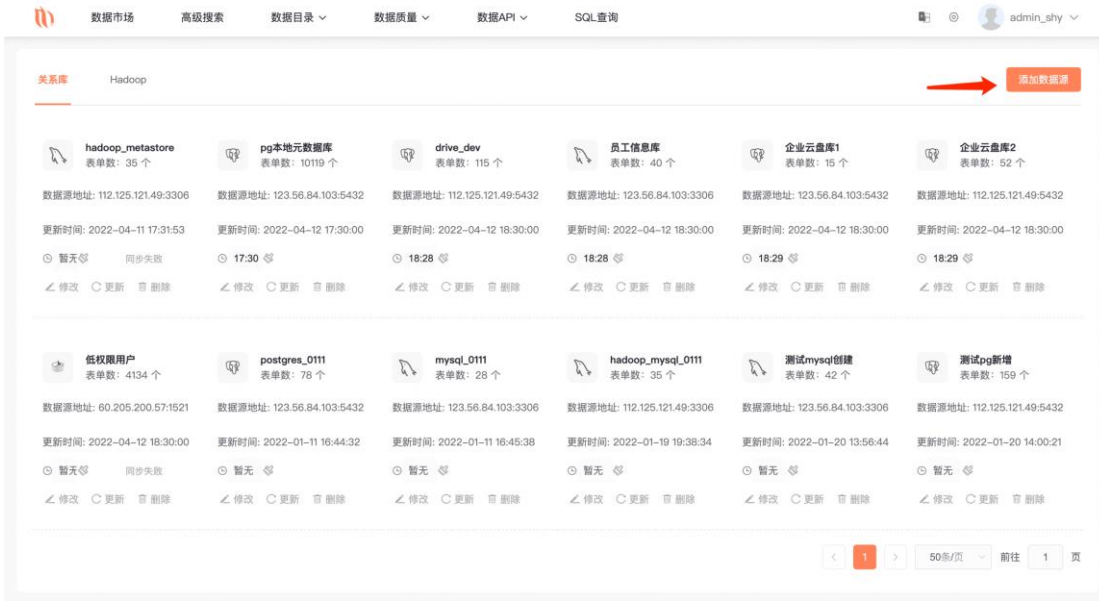
3.8.5 Data Configuration

Import database data into the system by adding a data source.



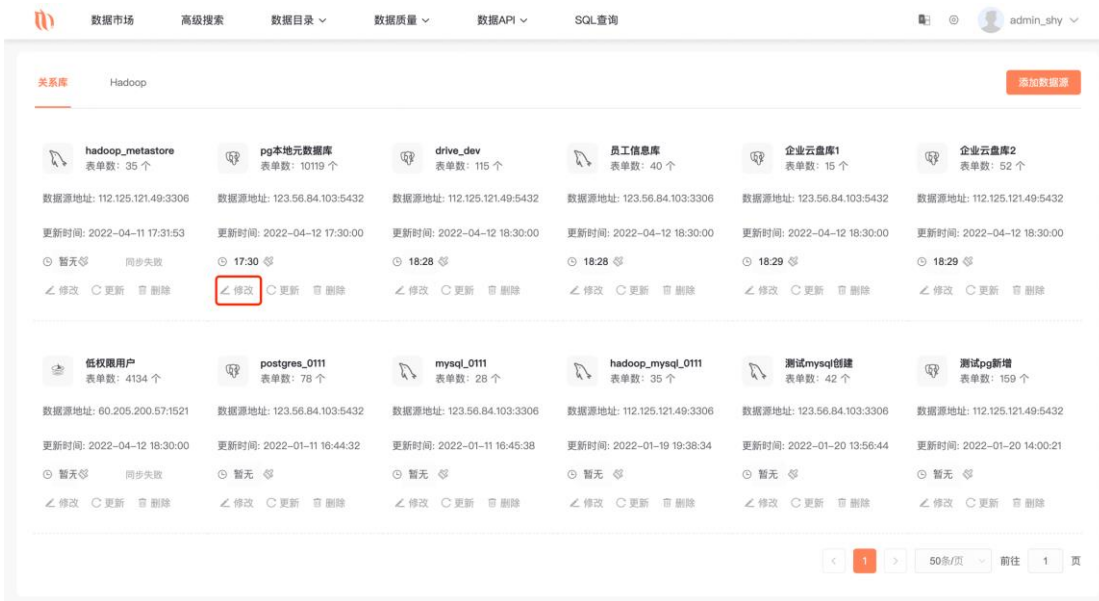
3.8.5.1 Add Data Source

Click "Add data source". In the popup window, select the database and fill in the connection parameters. Click "Test"; if it indicates a successful test, the configuration is correct. After a successful test, click "Create Now" for successful creation.



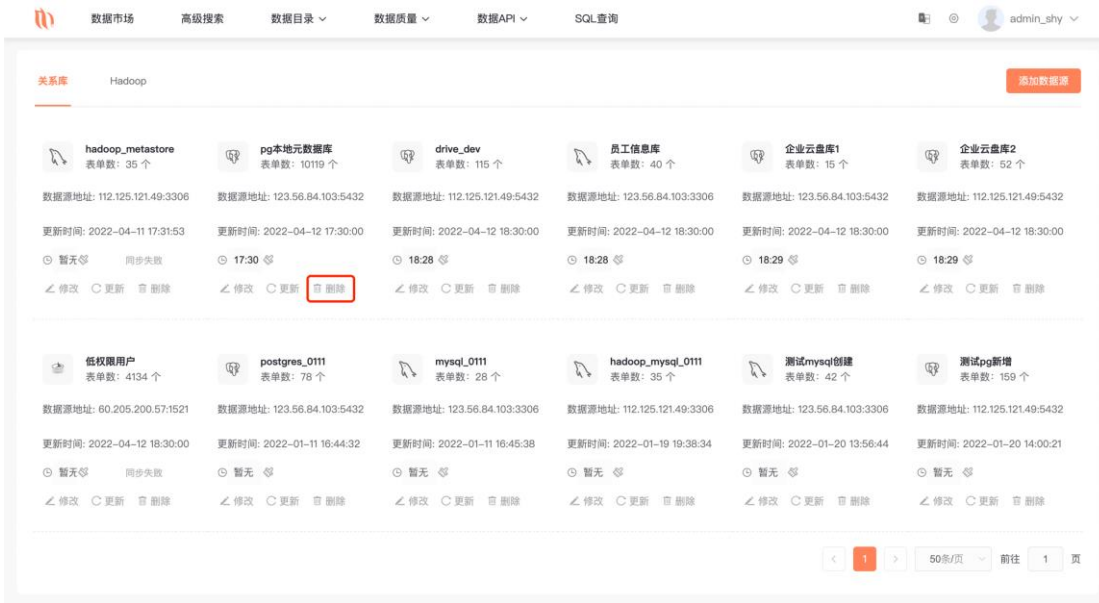
3.8.5.2 Modify Data Source

Click "Modify". In the popup "Modify data source" window, after entering information, click "Test". After a successful test prompt, click "Next", then "Save" after modifications.



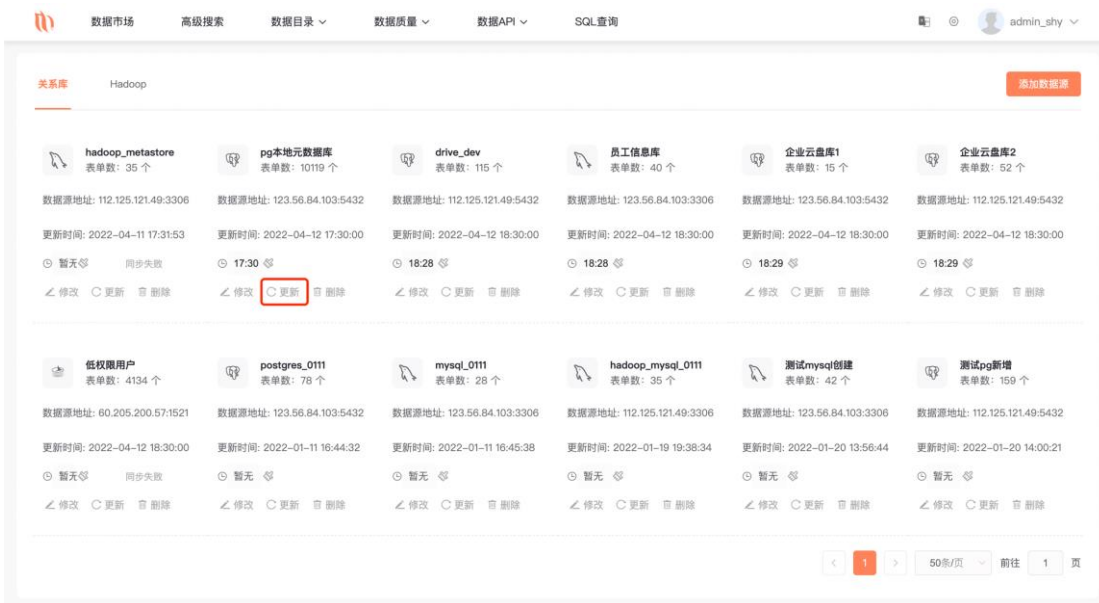
3.8.5.3 Delete Data Source

Click "Delete" for a confirmation prompt, then delete the data source.



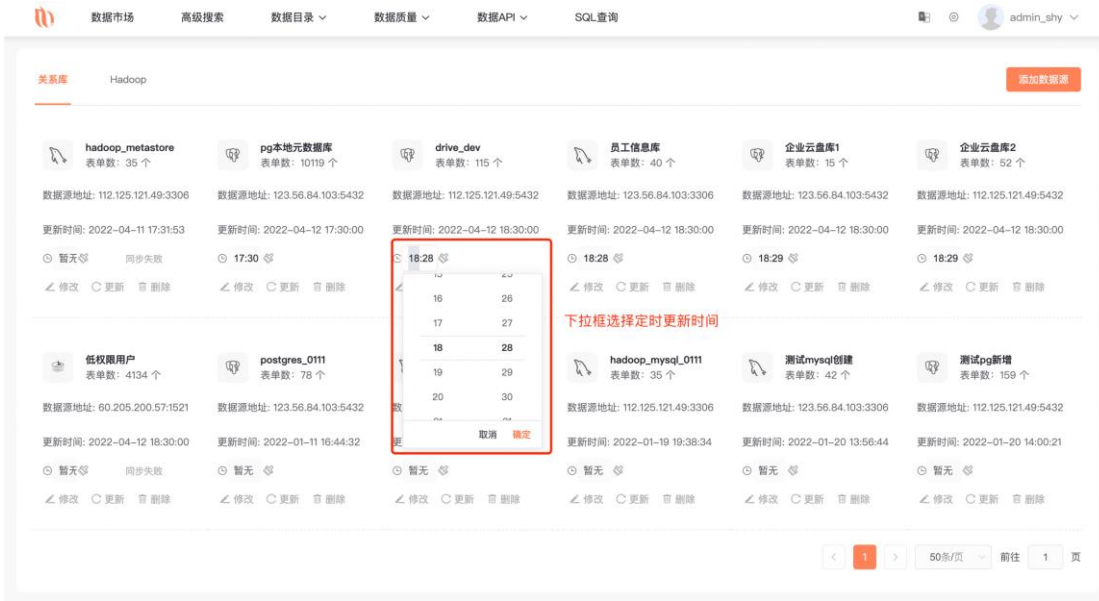
3.8.5.4 Update Data Source

Click the "Update" button, which brings up a popup. Select the tables that need updating, updating backend metadata information.



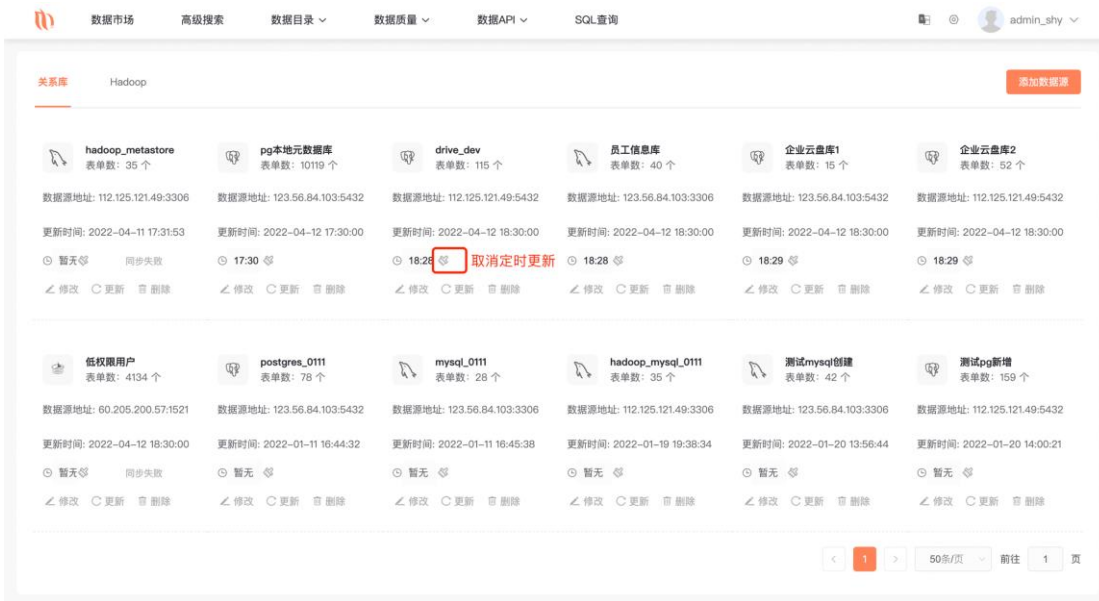
3.8.5.5 Scheduled Update

Click the "Scheduled" button, set the time, click "Confirm", a prompt "Update complete" appears. The data source will be updated automatically at that time each day.



3.8.5.6 Delete Scheduled Update

Click the "Delete" button to clear the scheduling.




3.8.6 Detailed Configuration for Each Data Source

MySQL

Select the MySQL database, fill in system information, proceed after a successful test.

1 数据源类型 ————— 2 基础信息 ————— 3 选择数据库 ×

* 业务系统 

Server

* 数据源地址 * 端口号

* 数据库

* 驱动版本

认证

* 用户

密码

Complete data source addition after selecting the required database.

PostgreSQL

Select the PostgreSQL database, fill in system information, proceed after a successful test.

1 数据源类型 ————— 2 基础信息 ————— 3 选择数据库 ×

* 业务系统 

Server

* 数据源地址 * 端口号

* 数据库

* 驱动版本

认证

* 用户

密码

Complete data source addition after selecting the required database.

Oracle

Select the Oracle database, fill in system information, proceed after a successful test.

1 数据源类型
2 基础信息
3 选择数据库

* 业务系统 ORACLE

Server

* 数据源地址 * 端口号

* 服务名

* 驱动版本

认证

* 用户

* 密码

测试连接
上一步
下一步
取消

Complete data source addition after selecting the required database.

Note that the service name is uppercase. The service name can be obtained by the SQL command: select instance_name from v\$instance.

```
1 select instance_name from v$instance
```


Message
Result 1

INSTANCE_NAME
XE

Hadoop Data Source Configuration

First, configure the corresponding data source information in the "Relational Database". For example, MySQL for Hadoop.

1 数据源类型 | 2 基础信息 | 3 选择数据库

* 业务系统 

Server

* 数据源地址 * 端口号

* 数据库

* 驱动版本

认证


* 用户

密码

测试连接 | 上一步 | 下一步 | 取消

In "Hadoop", select metadata and "Account Authentication" to configure Hadoop.

1 数据源类型 | 2 基础信息

* 业务系统 

* 配置元数据

Server

* 数据源地址 * 端口号

* 数据库

* 驱动版本

认证

用户 * 认证

密码

测试连接 | 上一步 | 确定

If Kerberos authentication is needed, select Kerberos authentication and upload the kerberos_keytab.

1 数据源类型
2 基础信息 ×

*** 业务系统**


*** 配置元数据**

Server

*** 数据源地址** *** 端口号**

*** 数据库**

*** 驱动版本**



认证

用户

principal

Krb5 路径

*** 认证**

上传 Kerberos Keytab [↕](#)

When using Kerberos authentication, ensure that the Kerberos client is installed on the server. For detailed configuration, refer to Kerberos configuration in the appendix.

3.9 My Settings

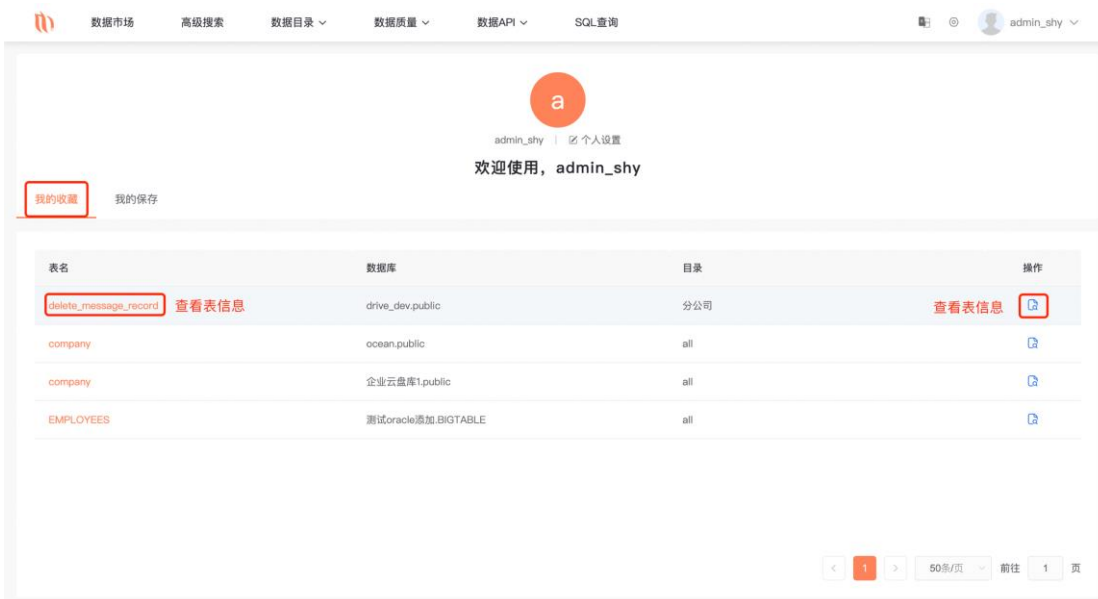
3.9.1 Personal Center

Click on the username in the top right corner of the main interface to automatically display the hidden bar, click on the "Name" to expand my page. There are three functions: "My Favorites", "My Saves", and "Modify Information". You can view favorited data tables in "My Favorites", view saved files in "My Saves", and modify personal information in "Modify Information".



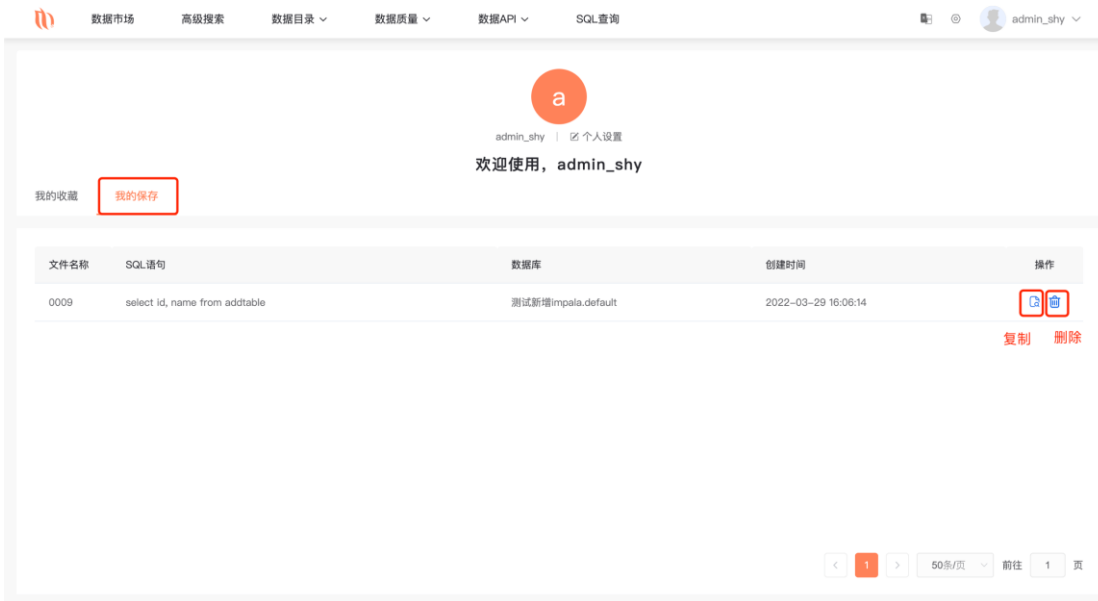
3.9.1.1 My Favorites

All favorited tables can be viewed and are displayed on pages in the interface. Click “Action” to enter table details.



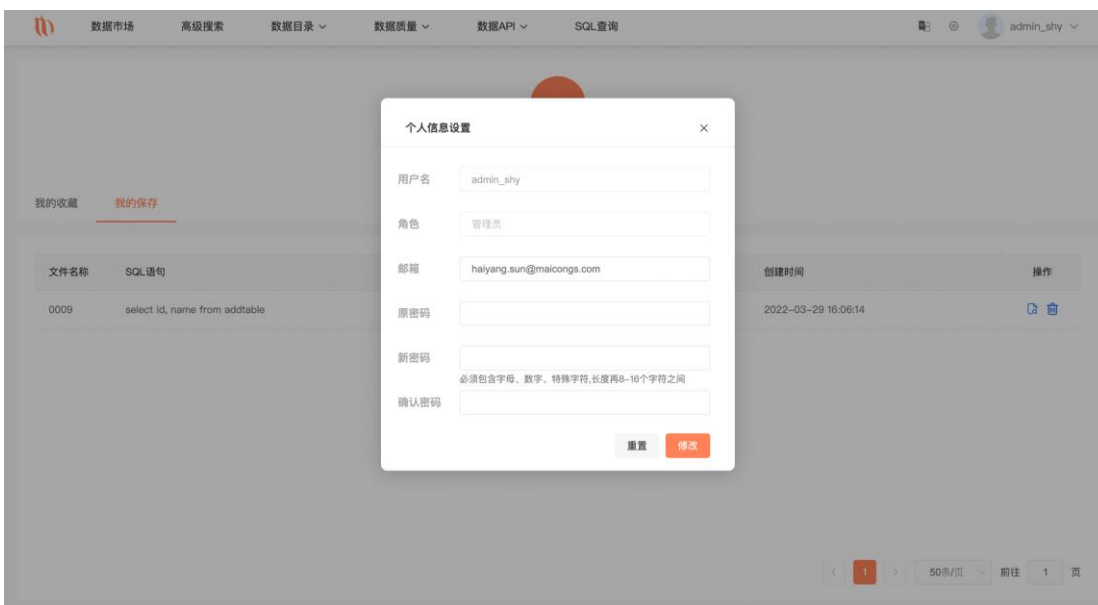
3.9.1.2 My Saves

View saved SQL statements. Click the operation box button on the right to bring up the corresponding popup for operations.

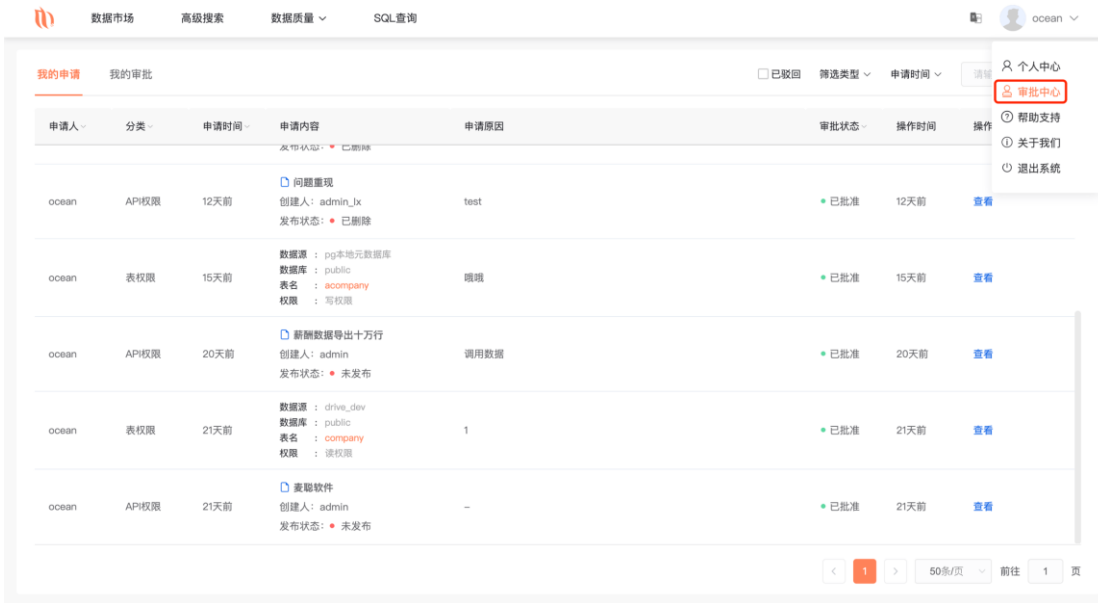


3.9.1.3 Personal Settings

Click the “Personal Settings” button to navigate to the information modification page. After entering the original and new passwords, you can perform password change operations, as well as modify the email.

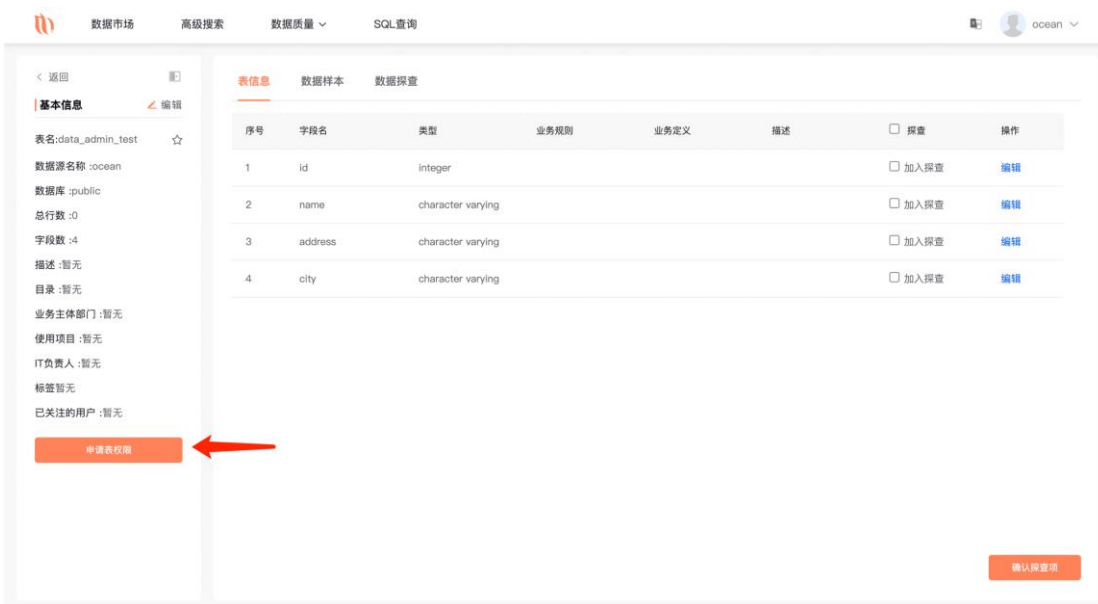


3.9.2 Approval Center



3.9.2.1 Table Permission Application

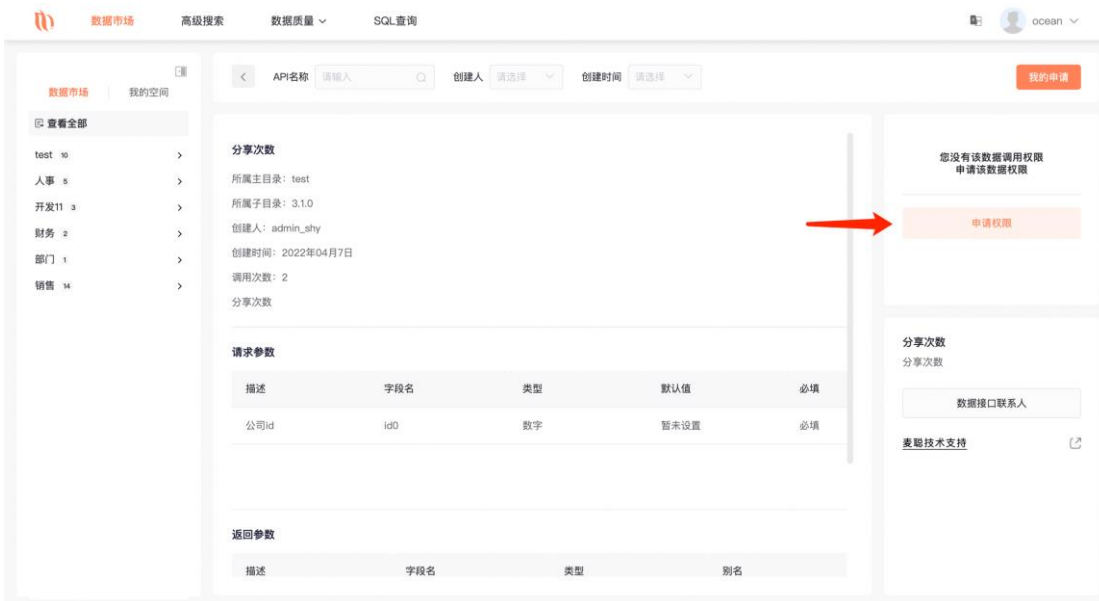
Users can apply for query and edit permissions in the table details.



For the same table, if query permission is applied first, you can apply for edit permission again. The actual permissions are based on the approval result. If edit permission is approved first and then view permission, the edit permission remains. If edit permission is applied first and view permission is needed again, withdraw the edit permission application first before submitting a new application. The application is approved by the API creator, administrator, and data administrator.



3.9.2.2 API Permission Application

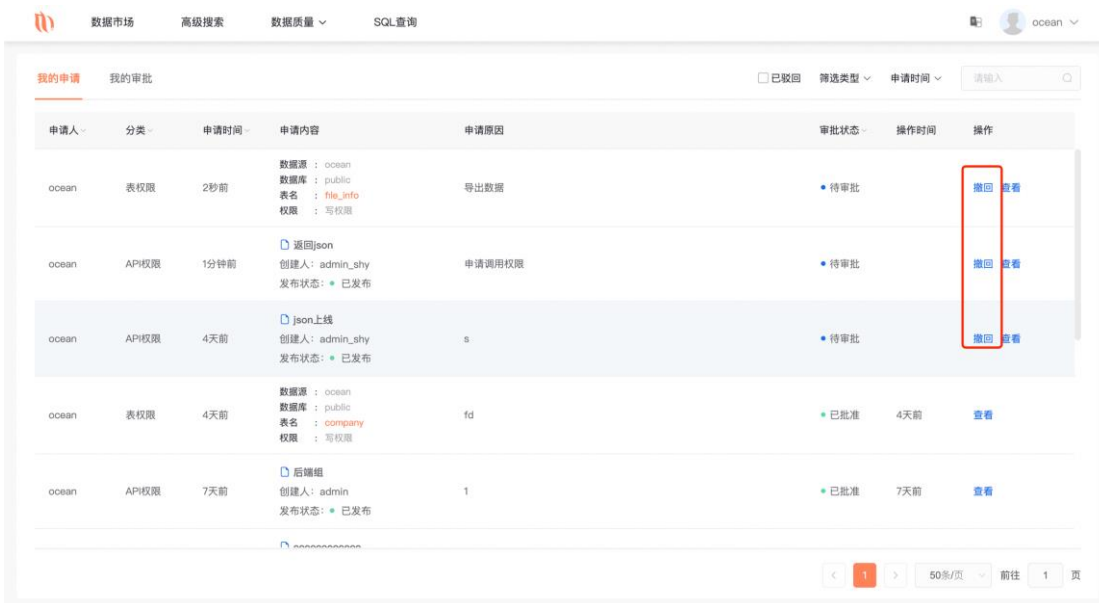


You can apply for API permissions on the data API detail page in the data market, which is approved by the API creator, administrator, and data administrator.



3.9.2.3 Withdraw Application

Users can view their application and approval records in the "Approval Center" and withdraw their applications.



3.9.2.4 Approval

For API permission applications, API creators, administrators, and data administrators can approve. For table permission applications, only administrators and data administrators can approve.

3.9.2.4.1 Approve

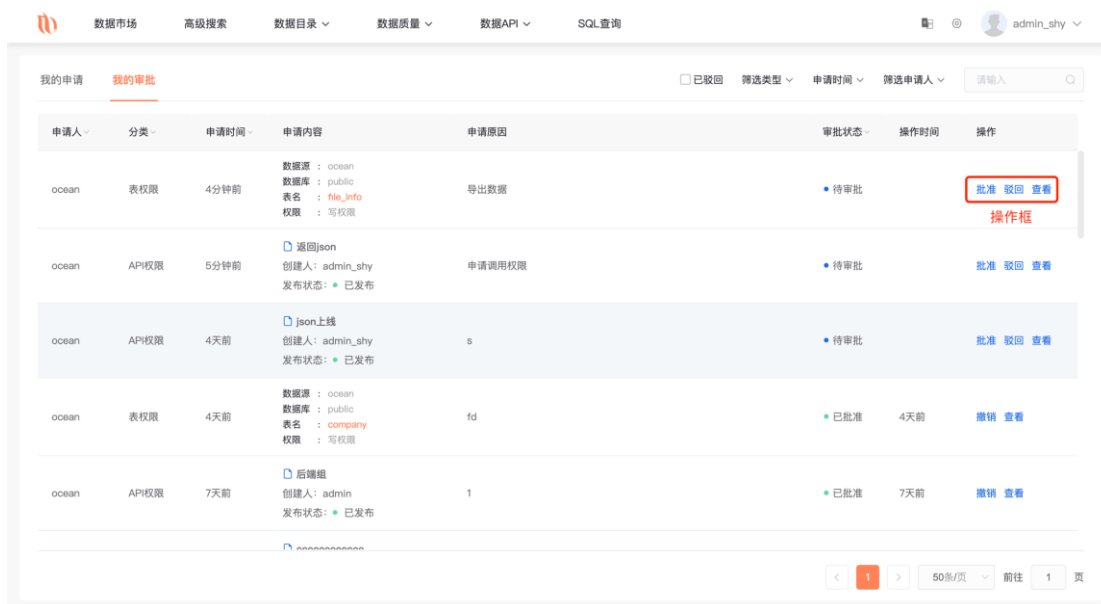
Agree with the application, granting permissions to the applicant.

3.9.2.4.2 Reject

Disagree with the application, denying permissions to the applicant.

3.9.2.4.3 View

View application content.



3.9.3 Help & Support

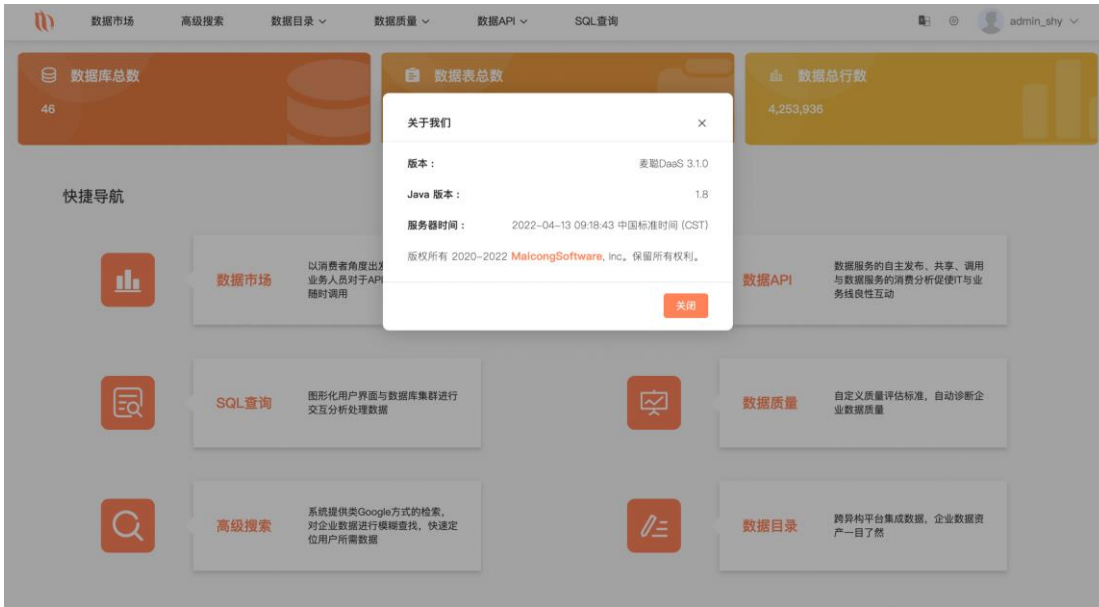
Click "Help & Support" to jump to the support link.



3.9.4 About Us

Click "About Us" to jump to the support link.





3.9.5 Exit System

Click "Exit System" to exit the program.



4 Appendix

4.1 Configure Kerberos

4.1.1 Install Kerberos Client

Installation (without internet environment)

Unzip from the dependency folder:

```
unzip krb5-libs-1.15.1-8.el7.x86_64.zip
```

```
[root@bogon essential_dependencies_only]# unzip krb5-libs-1.15.1-8.el7.x86_64.zip
Archive:  krb5-libs-1.15.1-8.el7.x86_64.zip
  inflating: krb5-libs-1.15.1-8.el7.x86_64.rpm
[root@bogon essential_dependencies_only]#
```

Note: If there is no essential_dependencies_only folder in the installation package, please re-download the dependency package version of the software package.

Execute installation command:

```
rpm -ivh krb5-libs-1.15.1-8.el7.x86_64.rpm
```

```
[root@bogon essential_dependencies_only]# rpm -ivh krb5-libs-1.15.1-8.el7.x86_64.rpm
warning: krb5-libs-1.15.1-8.el7.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID f4a80eb5: NOKEY
Preparing...
##### [100%]
package krb5-libs-1.15.1-34.el7.x86_64 (which is newer than krb5-libs-1.15.1-8.el7.x86_64) is already installed
file /etc/krb5.conf from install of krb5-libs-1.15.1-8.el7.x86_64 conflicts with file from package krb5-libs-1.15.1-34.el7.x86_64
file /usr/lib64/krb5/plugins/tls/k5tls.so from install of krb5-libs-1.15.1-8.el7.x86_64 conflicts with file from package krb5-libs-1.15.1-34.el7.x86_64
file /usr/lib64/libgssapi_krb5.so.2.2 from install of krb5-libs-1.15.1-8.el7.x86_64 conflicts with file from package krb5-libs-1.15.1-34.el7.x86_64
file /usr/lib64/libgssrpc.so.4.2 from install of krb5-libs-1.15.1-8.el7.x86_64 conflicts with file from package krb5-libs-1.15.1-34.el7.x86_64
file /usr/lib64/libk5crypto.so.3.1 from install of krb5-libs-1.15.1-8.el7.x86_64 conflicts with file from package krb5-libs-1.15.1-34.el7.x86_64
file /usr/lib64/libkdb5.so.8.0 from install of krb5-libs-1.15.1-8.el7.x86_64 conflicts with file from package krb5-libs-1.15.1-34.el7.x86_64
file /usr/lib64/libkrad.so.0.0 from install of krb5-libs-1.15.1-8.el7.x86_64 conflicts with file from package krb5-libs-1.15.1-34.el7.x86_64
file /usr/lib64/libkrb5.so.3.3 from install of krb5-libs-1.15.1-8.el7.x86_64 conflicts with file from package krb5-libs-1.15.1-34.el7.x86_64
file /usr/lib64/libkrb5support.so.0.1 from install of krb5-libs-1.15.1-8.el7.x86_64 conflicts with file from package krb5-libs-1.15.1-34.el7.x86_64
file /usr/share/man/man5/krb5.conf.5.gz from install of krb5-libs-1.15.1-8.el7.x86_64 conflicts with file from package krb5-libs-1.15.1-34.el7.x86_64
```

Installation (with internet environment)

```
yum -y install krb5-libs krb5-workstation
```

4.1.2 Copy File

Copy the krb5.conf file from KDC Server to Kerberos Client.

Move the krb5.conf file to the /etc directory of the installation server (software will read from this path by default)

```
scp [parameters] [original path] [destination path]
scp /etc/krb5.conf root@172.17.82.136:/etc/krb5_old.conf
```

***Note:** If the two servers cannot communicate, manually copy the krb5.conf file to the /etc directory.

If a specific port is set for the scp command by the remote server's firewall, we need to use the `-P` option to set the command port number.

```
scp -P 4588 /etc/krb5.conf root@172.17.82.136:/etc/krb5_old.conf
```

4.1.3 Modify the hosts file

Modify the hosts file to ensure communication between Kerberos client and cluster.

Copy the hosts file configurations related to the KDC Server and cluster into the target server's hosts file.

```
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
::1 localhost localhost.localdomain localhost6 localhost6.localdomain6
#
# To add new entries to the hosts file, you should use:
#
# sudo nano /etc/hosts
#
# hadoop.hadoop.com
# manager
# node-group-lRBFv.28cafffdf-2840-482b-a570-e73c0e1036be.com node-group-lRBFv.28cafffdf-2840-482b-a570-e73c0e1036be.com.
# node-group-luplj.28cafffdf-2840-482b-a570-e73c0e1036be.com node-group-luplj.28cafffdf-2840-482b-a570-e73c0e1036be.com.
# node-group-lFPUI.28cafffdf-2840-482b-a570-e73c0e1036be.com node-group-lFPUI.28cafffdf-2840-482b-a570-e73c0e1036be.com.
# node-group-lsqsn.28cafffdf-2840-482b-a570-e73c0e1036be.com node-group-lsqsn.28cafffdf-2840-482b-a570-e73c0e1036be.com.
# node-master2EIAj.28cafffdf-2840-482b-a570-e73c0e1036be.com node-master2EIAj.28cafffdf-2840-482b-a570-e73c0e1036be.com.
# node-masterlaizS.28cafffdf-2840-482b-a570-e73c0e1036be.com node-masterlaizS.28cafffdf-2840-482b-a570-e73c0e1036be.com.
# node-group-lAYpK.28cafffdf-2840-482b-a570-e73c0e1036be.com node-group-lAYpK.28cafffdf-2840-482b-a570-e73c0e1036be.com.
# node-master3IEom.28cafffdf-2840-482b-a570-e73c0e1036be.com node-master3IEom.28cafffdf-2840-482b-a570-e73c0e1036be.com.
# node-group-lGzPU.28cafffdf-2840-482b-a570-e73c0e1036be.com node-group-lGzPU.28cafffdf-2840-482b-a570-e73c0e1036be.com.
# node-group-ljgYi.28cafffdf-2840-482b-a570-e73c0e1036be.com node-group-ljgYi.28cafffdf-2840-482b-a570-e73c0e1036be.com.
```

4.1.4 Test if keytab authentication is successful

```
kinit -kt /etc/temp/conf/hdfs.keytab username
```

```
keytab]# kinit -kt fb816997-e429-4cba-9627-9da80b94d9f1.keytab maicong
keytab]#
```

4.1.5 Software Configuration

Configure the path where the keytab file is stored in the system, edit the config/maicong.yaml file

```
# ----- CUSTOM -----
hadoop.metastore.upperlow: 1
# set the hadoop db filter, if you don't want to get all hadoop dbs, you can set the parameter
# the format is: dbID1:dbName1,dbName2;dbID2:dbName1,dbName2
config.hadoop.filter:
# set the filePath for hadoop kerberos certification files
filePath: software/maicongsoftware/keytab
# set the server is master, if master, set 1, if not slave. one cluster only one master
master: 1
```