


Q1. Register Airbyte Account



skhan93@wisc.edu

Connections

Sources

Destinations

Builder

Settings

Help

Light mode

SHAHAB AHMAD KHAN

Settings / SHAHAB AHMAD KHAN's Organization / skhan93@wisc.edu

ACCOUNT

Profile

Applications

Cookie Preferences

WORKSPACE

General

Members

Sources

Destinations

Integrations

Notifications

Usage

ORGANIZATION

General

Members

Billing

Usage

Workspace members

Members

Q Search

+ New member

MEMBER ^

WORKSPACE ROLE

SA

SHAHAB AHMAD KHAN


skhan93@wisc.edu

YOU

Admin

ORGANIZATION ADMIN

Q2. Register Snowflake Account



Account_details

Databases

Worksheets

Q Search objects

> SNOWFLAKE

> SNOWFLAKE_SAMPLE_DATA

SAK Shahab Ahmad Khan

Switch Role

ACCOUNTADMIN

Account

NB98951

My profile

Support

Appearance

Connect a tool to Snowflake

Client download

Documentation

Privacy notice

Sign Out

SAK

ACCOUNTADMIN

COMPUTE_WH (X-Small)

Share

▶

▼

No Database selected

Settings

Q

1 SELECT CURRENT_ACCOUNT() AS account_name, CURRENT_REGION() AS region, CURRENT_USER() AS user_name,

2 CURRENT_VERSION() AS snowflake_version;

Results

Chart

Q

⌵

⌴

⌚

	ACCOUNT_NAME	REGION	USER_NAME	SNOWFLAKE_VERSION
1	IA05588	GCP_US_CENTRAL1	SHAHABAK	9.8.1

Query Details

...

Query duration

103ms

Rows

1

Query ID

01bb7bec-0004-9131-0...

Show more

ACCOUNT_NAME

100% filled

REGION

100% filled

USER_NAME

100% filled

Q4. Snowflake configuration

```
-- Set variables (use uppercase)
SET p4_role = 'P4_ROLE';
SET p4_warehouse = 'P4_WAREHOUSE';
SET survey_database = 'SURVEY_DATABASE';
SET stock_db = 'STOCK_DB';

BEGIN;

-- Write a SQL query to switch to use accountadmin role
USE ROLE ACCOUNTADMIN;

-- Create a warehouse named P4_WAREHOUSE using xsmall as warehouse size
CREATE WAREHOUSE IF NOT EXISTS identifier($p4_warehouse)
  WAREHOUSE_SIZE = 'XSMALL'
  AUTO_SUSPEND = 60
  AUTO_RESUME = TRUE
  INITIALLY_SUSPENDED = TRUE;

-- Create two databases named SURVEY_DATABASE and STOCK_DB
CREATE DATABASE IF NOT EXISTS identifier($survey_database);
CREATE DATABASE IF NOT EXISTS identifier($stock_db);

COMMIT;

BEGIN;

-- Create a role named P4_ROLE and grant P4_ROLE to the SYSADMIN role
CREATE ROLE IF NOT EXISTS identifier($p4_role);
GRANT ROLE identifier($p4_role) TO ROLE SYSADMIN;

-- Grant usage on the warehouse P4_WAREHOUSE to the P4_ROLE
GRANT USAGE ON WAREHOUSE identifier($p4_warehouse) TO ROLE identifier($p4_role);

-- Grant the role P4_ROLE to your Snowflake user
GRANT ROLE identifier($p4_role) TO USER SHAHABAK;

-- Grant ownership of SURVEY_DATABASE and STOCK_DB to P4_ROLE
GRANT OWNERSHIP ON DATABASE identifier($survey_database) TO ROLE identifier($p4_role);
GRANT OWNERSHIP ON DATABASE identifier($stock_db) TO ROLE identifier($p4_role);

COMMIT;

BEGIN;

-- Switch to P4_ROLE
USE ROLE identifier($p4_role);

-- Create a schema in SURVEY_DATABASE named SURVEY_SCHEMA
CREATE SCHEMA IF NOT EXISTS SURVEY_DATABASE.SURVEY_SCHEMA;

-- Create a schema in STOCK_DB named STOCK_SCHEMA
CREATE SCHEMA IF NOT EXISTS STOCK_DB.STOCK_SCHEMA;

-- Grant ownership of SURVEY_SCHEMA to P4_role
GRANT OWNERSHIP ON SCHEMA SURVEY_DATABASE.SURVEY_SCHEMA TO ROLE identifier($p4_role);
```

```
-- Grant ownership of STOCK_SCHEMA to P4_role
GRANT OWNERSHIP ON SCHEMA STOCK_DB.STOCK_SCHEMA TO ROLE identifier($p4_role);

COMMIT;
```

Q5. Airbyte configuration for survey

Airbyte

skhan93@wisc.edu

Connections

Sources

Destinations

Builder

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Light mode

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Connections

1 healthy

Search

All connectionsAll statusesAll sourcesAll destinationsTags

6h24h7d30d

4

2

0

Sat, 29 MarSun, 30 MarMon, 31 MarTue, 1 AprWed, 2 AprThu, 3 AprFri, 4 AprSat, 5 Apr

NAME

SOURCE NAME

DESTINATION NAME

FREQUENCY

TAGS

LAST SYNC

ENABLED

Google Sheets-P4 Student ...

Google Sheets-P4 Student ...

Snowflake

1 hour

4 minutes ago

Q6. Airbyte configuration for trading_books.csv and weights_table.csv files

Airbyte

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Sources

Destinations

Builder

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Sources

+ New source

Search

All statuses

NAME

CONNECTOR

DESTINATION

LAST SYNC

STATUS

File-trading_books.csv

File (CSV, JSON, Excel, Feather, Parquet)

1 Snowflake-Stock_DB
Snowflake

6 minutes ago

1

File-weights_table.csv

File (CSV, JSON, Excel, Feather, Parquet)

1 Snowflake-Stock_DB
Snowflake

11 minutes ago

1

Google Sheets-P4 Student Survey

Google Sheets

1 Snowflake-Survey_DB
Snowflake

10 minutes ago

1

Q7. Connect Airbyte to Snowflake to load trading_books and weights_table

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Connections

Sources

Destinations

Builder

Settings

Help

Light mode

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Destinations

Search

All statuses

NAME	CONNECTOR	SOURCE	LAST SYNC	STATUS
Snowflake-Survey_DB	Snowflake	1 Google Sheets-P4 Student Survey Google Sheets	11 minutes ago	1
Snowflake-Stock_DB	Snowflake	2 sources File (CSV, JSON, Excel, Fea...	7 minutes ago	2

Q8. Data Preview on Snowflake

Create

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Add Data

Migrations

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AI & ML

Monitoring

Admin

\$400 credits left

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Search

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

STOCK_DB

INFORMATION_SCHEMA

PUBLIC

STOCK_SCHEMA

Tables

TRADING_BOOKS

WEIGHTS_TABLE

airbyte_internal

SURVEY_DATABASE

STOCK_DB / STOCK_SCHEMA / TRADING_BOOKS

Table P4_ROLE 20 minutes ago 30 7.0KB

Table Details Columns Data Preview Copy History Lineage

COMPUTE_WH 30 Rows • Updated 3 minutes ago

	DESK	NOTES	PRICE	TICKER	QUANTITY	TRADE_ID	TRADE_DATE	TRADE_TYPE	TRADER_NAME
1	Equity Desk	Initiated position based on strong earnings report	175.5	AAPL	100	1001	2024-03-01	BUY	John Smith
2	Equity Desk	Taking profits after 1.5% gain	178.25	AAPL	100	1002	2024-03-01	SELL	John Smith
3	FX Desk	Positioning for ECB rate decision	1.085	EUR/USD	100000	1003	2024-03-01	BUY	Sarah Johnson
4	FX Desk	Closing position after ECB announcement	1.092	EUR/USD	100000	1004	2024-03-01	SELL	Sarah Johnson
5	Equity Desk	Adding to position on AI momentum	405.75	MSFT	50	1005	2024-03-01	BUY	Michael Chen
6	Equity Desk	Quick profit on AI news	408.5	MSFT	50	1006	2024-03-01	SELL	Michael Chen
7	FX Desk	Technical breakout signal	1.265	GBP/USD	75000	1007	2024-03-01	BUY	Lisa Wong
8	FX Desk	Target reached	1.272	GBP/USD	75000	1008	2024-03-01	SELL	Lisa Wong
9	Equity Desk	Strong search revenue growth	141.25	GOOGL	75	1009	2024-03-01	BUY	David Kim
10	Equity Desk	Profit taking	142.5	GOOGL	75	1010	2024-03-01	SELL	David Kim
11	Equity Desk	Re-entering on pullback	176.25	AAPL	150	1011	2024-03-04	BUY	John Smith
12	Equity Desk	Technical resistance hit	179.5	AAPL	150	1012	2024-03-04	SELL	John Smith
13	FX Desk	Strong economic data	1.088	EUR/USD	125000	1013	2024-03-04	BUY	Sarah Johnson
14	FX Desk	Profit taking on data	1.095	EUR/USD	125000	1014	2024-03-04	SELL	Sarah Johnson
15	Equity Desk	Cloud growth acceleration	407.25	MSFT	75	1015	2024-03-04	BUY	Michael Chen
16	Equity Desk	Target reached	410.75	MSFT	75	1016	2024-03-04	SELL	Michael Chen
17	FX Desk	BOE rate decision	1.268	GBP/USD	100000	1017	2024-03-04	BUY	Lisa Wong
18	FX Desk	Position closed after decision	1.275	GBP/USD	100000	1018	2024-03-04	SELL	Lisa Wong
19	Equity Desk	Ad revenue growth	142.25	GOOGL	100	1019	2024-03-04	BUY	David Kim
20	Equity Desk	Technical target hit	144.5	GOOGL	100	1020	2024-03-04	SELL	David Kim
21	Equity Desk	Strong iPhone sales	177.5	AAPL	200	1021	2024-03-05	BUY	John Smith
22	Equity Desk	Profit taking	180.25	AAPL	200	1022	2024-03-05	SELL	John Smith
23	FX Desk	ECB minutes release	1.09	EUR/USD	150000	1023	2024-03-05	BUY	Sarah Johnson
24	FX Desk	Position closed	1.098	EUR/USD	150000	1024	2024-03-05	SELL	Sarah Johnson
25	Equity Desk	AI partnership news	409.5	MSFT	100	1025	2024-03-05	BUY	Michael Chen
26	Equity Desk	Target reached	413.25	MSFT	100	1026	2024-03-05	SELL	Michael Chen
27	FX Desk	UK GDP data	1.27	GBP/USD	125000	1027	2024-03-05	BUY	Lisa Wong

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SNOWFLAKE_SAMPLE_DATA

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INFORMATION_SCHEMA

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STOCK_SCHEMA

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TRADING_BOOKS

WEIGHTS_TABLE

airbyte_internal

SURVEY_DATABASE

STOCK_DB / STOCK_SCHEMA / WEIGHTS_TABLE

Table P4_ROLE 28 minutes ago 2 3.0KB

Table DetailsColumnsData PreviewCopy HistoryLineage

COMPUTE_WH2 Rows • Updated 2 minutes ago

	_AIRBYTE_META	_AIRBYTE_GENERATION_ID	DESK	REGION	TARGET_ALLOCATION
1	{ "changes": [], "sync_id": 32743874 }	1	FX Desk	Europe	0.25
2	{ "changes": [], "sync_id": 32743874 }	1	Equity Desk	North America	0.75

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airbyte_internal

SURVEY_DATABASE

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PUBLIC

SURVEY_SCHEMA

Tables

SURVEY

airbyte_internal

SURVEY_DATABASE / SURVEY_SCHEMA / SURVEY

Table P4_ROLE 31 minutes ago 159 21.5KB

Table DetailsColumnsData PreviewCopy HistoryLineage

COMPUTE_WH100 of 159 Rows • Updated 2 minutes ago

	TIMESTAMP	EMAIL_ADDRESS	WHAT_IS_YOUR_AGE_	WHAT_IS_YOUR_FAVORITE_HOBBY_	WHAT_IS_YOUR_CURRENT_STANDING
1	3/19/2025 13:29:38	igallucci@wisc.edu	22	Watching Movies	Senior
2	3/19/2025 13:29:54	jwcramer2@wisc.edu	21	Playing the piano.	Senior
3	3/19/2025 13:30:35	jzhang2752@wisc.edu	20	Dance	Sophomore
4	3/19/2025 13:29:05	entackett@wisc.edu	20	Learning mathematics in my free time	Senior
5	3/21/2025 11:17:35	snegus@wisc.edu	21	Downhill skiing	Junior
6	4/1/2025 18:18:53	weng32@wisc.edu	21	sleeping	Senior
7	3/20/2025 16:01:25	amohan33@wisc.edu	21	Reading	Junior
8	4/1/2025 21:17:09	binfarulmuzzr@wisc.edu	21	Playing musical instruments	Sophomore
9	3/19/2025 13:30:37	mkuo22@wisc.edu	19	going on walks with friends	Sophomore
10	3/31/2025 13:37:35	ekanderson8@wisc.edu	21	Drawing	Senior
11	4/1/2025 12:23:54	avkekane@wisc.edu	19	cooking	Sophomore
12	3/19/2025 13:30:36	tiliang34@wisc.edu	23	idk	Senior
13	3/31/2025 12:39:06	cwherbert@wisc.edu	22	Watching sports	Senior
14	3/19/2025 13:30:45	dsmith73@wisc.edu	21	Guitar	Senior
15	4/2/2025 10:10:10	atapia3@wisc.edu	21	Playing instruments	Senior
16	3/31/2025 16:02:43	sapatankar2@wisc.edu	22	Playing Tennis	Senior
17	4/2/2025 22:17:33	bzhang457@wisc.edu	21	Music	Junior
18	3/21/2025 13:52:13	averma45@wisc.edu	21	Playing Badminton	Junior
19	4/2/2025 23:14:46	puckhaber@wisc.edu	21	Reading	Senior
20	3/19/2025 16:53:50	tpnagar@wisc.edu	22	Cycling	Senior
21	4/1/2025 21:38:40	lallo@wisc.edu	21	Piano	Senior
22	3/21/2025 13:49:18	dgkulkarni2@wisc.edu	25	Sleeping	Grad
23	4/1/2025 22:42:43	zfang75@wisc.edu	22	soccer	Senior
24	3/19/2025 13:34:56	dchakkar@wisc.edu	22	Basketball	Senior
25	4/2/2025 10:57:07	amohan28@wisc.edu	20	basketball	Senior
26	3/31/2025 10:53:22	bmurallikrish@wisc.edu	24	Watching F1, Playing Cricket, Playing Video Games	Grad
27	3/24/2025 9:09:11	jlee2278@wisc.edu	21	building figurines	Junior

Q9. Use dbt to transform the column names to single word or two-word names with "_" separator and create a view named transform_survey.

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

STOCK_DB

SURVEY_DATABASE

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MY_SECOND_DBT_MODEL

TRANSFORM_SURVEY

airbyte_internal

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SURVEY_DATABASE / SURVEY_SCHEMA / TRANSFORM_SURVEY

ViewP4_ROLE2 hours ago

View DetailsColumnsData PreviewLineage

COMPUTE_WHUpdated 1 minute ago

	EMAIL	AGE	HOBBY	PRIMARY_MAJOR	SECONDARY_MAJOR	SELECTION_FACTOR
1	lgallucci@wisc.edu	22	Watching Movies	Data Science	null	Interest in the subject
2	jwtcramer2@wisc.edu	21	Playing the piano.	Data Science	null	Career relevance
3	jzhang2752@wisc.edu	20	Dance	Data Science	Statistics	Graduation requirements
4	entackett@wisc.edu	20	Learning mathematics in my free time	Mathematics/AMEP	null	Career relevance
5	snegus@wisc.edu	21	Downhill skiing	Data Science	Digital Media Analytics	Interest in the subject
6	weng32@wisc.edu	21	sleeping	Other	Data science, Psychology	Career relevance
7	amohan33@wisc.edu	21	Reading	Computer Science	null	Interest in the subject
8	binfarulmuzr@wisc.edu	21	Playing musical instruments	Computer Science	Data Science	Interest in the subject
9	mkuo22@wisc.edu	19	going on walks with friends	Data Science	null	Graduation requirements
10	ekanderson8@wisc.edu	21	Drawing	Data Science	null	Interest in the subject
11	avkekane@wisc.edu	19	cooking	Data Science	null	Interest in the subject
12	tlang34@wisc.edu	23	idk	Data Science	null	Interest in the subject
13	cwherbert@wisc.edu	22	Watching sports	Data Science	null	Interest in the subject
14	dsmith73@wisc.edu	21	Guitar	Data Science	null	Course workload
15	atapia3@wisc.edu	21	Playing instruments	Science: Physics	Computer Science	Career relevance
16	sapatankar2@wisc.edu	22	Playing Tennis	Computer Science	null	Graduation requirements
17	bzhang457@wisc.edu	21	Music	Computer Science	Math	Graduation requirements
18	averm445@wisc.edu	21	Playing Badminton	Computer Science	null	Interest in the subject
19	puckhaber@wisc.edu	21	Reading	Data Science	null	Career relevance
20	tpnagar@wisc.edu	22	Cycling	Computer Science	Philosophy	Interest in the subject
21	lallo@wisc.edu	21	Piano	Data Science	Vocal Performance, Computer Science	Graduation requirements
22	dgkulkarni2@wisc.edu	25	Sleeping	Computer Science	null	Interest in the subject
23	zfang75@wisc.edu	22	soccer	Data Science	null	Graduation requirements
24	dcthakkar@wisc.edu	22	Basketball	Computer Science	null	Course workload
25	amohan28@wisc.edu	20	basketball	Data Science	Computer Science	Interest in the subject
26	bmuralikrish@wisc.edu	24	Watching F1, Playing Cricket, Playing Video Games	Computer Science	null	Interest in the subject
27	jlee2278@wisc.edu	21	building figurines	Data Science	null	Graduation requirements

Q17. Ingest data directly from Snowflake Marketplace

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

STOCK_DB

STOCK_TRACKING_US_STOCK_PRICES_...

SURVEY_DATABASE

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FOREX_TRACKING_CURRENCY_EXCHAN... / STOCK / FOREX_METRICS

Table1 month ago7:1M77.1MB

Table DetailsColumnsData Preview

COMPUTE_WH100 of 7.1M RowsUpdated just now

	RUN_DATE	OPEN	HIGH	LOW	CLOSE	CURRENCY_PAIR_NAME
1	2025-01-08	281.85818	282.03400	281.75354	281.97794	AED/ARS
2	2025-01-08	0.43580	0.43959	0.43580	0.43817	AED/AUD
3	2025-01-08	0.54996	0.55294	0.54996	0.55032	AED/BBD
4	2025-01-08	0.10263	0.10275	0.10251	0.10272	AED/BHD
5	2025-01-08	1.66210	1.67589	1.66039	1.66384	AED/BRL
6	2025-01-08	0.39033	0.39198	0.39033	0.39148	AED/CAD
7	2025-01-08	0.24708	0.24848	0.24708	0.24804	AED/CHF
8	2025-01-08	273.53796	275.91394	272.69125	272.71576	AED/CLP
9	2025-01-08	1.99463	1.99821	1.99419	1.99504	AED/CNY
10	2025-01-08	1.96189	1.97700	1.96144	1.97035	AED/DKK
11	2025-01-08	0.26296	0.26496	0.26290	0.26406	AED/EUR
12	2025-01-08	4404.16553	4426.67041	4396.75977	4421.22266	AED/IDR
13	2025-01-08	0.99267	1.00188	0.99140	0.99829	AED/ILS
14	2025-01-08	38.20038	38.44829	38.19525	38.32017	AED/ISK
15	2025-01-08	42.60277	42.83421	42.60277	42.68482	AED/JMD
16	2025-01-08	0.19314	0.19363	0.19277	0.19313	AED/JOD
17	2025-01-08	35.25728	35.40974	35.12115	35.25728	AED/KES
18	2025-01-08	24495.40430	24523.66211	24394.22656	24394.22656	AED/LBP
19	2025-01-08	80.48778	80.92347	80.48778	80.67178	AED/LKR
20	2025-01-08	2.73271	2.74270	2.73271	2.73271	AED/MAD
21	2025-01-08	5.52494	5.58838	5.52478	5.55901	AED/MXN

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FOREX_TRACKING_CURRENCY_EXCHAN...

INFORMATION_SCHEMA

STOCK

Tables

FOREX_METRICS

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

STOCK_DB

STOCK_TRACKING_US_STOCK_PRICES...

INFORMATION_SCHEMA

STOCK

Tables

US_STOCK_METRICS

SURVEY_DATABASE

STOCK_TRACKING_US_STO...

STOCK / US_STOCK_METRICS

Load Data

Table

3 months ago

13.0M

143.0MB

Table Details

Columns

Data Preview

COMPUTE_WH

100 of 13.0M Rows • Updated just now

	RUN_DATE	TICKER	OPEN	HIGH	LOW	CLOSE	VOLUME
1	2024-12-16	A	138.63	139.94	137.00	137.67	1580700
2	2024-12-13	A	140.36	140.47	137.29	139.00	1474300
3	2024-12-10	A	144.25	144.90	141.73	141.93	1261300
4	2024-12-10	AACT.WT	0.24	0.24	0.22	0.22	2900
5	2024-12-04	AB	35.95	36.28	35.74	36.00	207300
6	2024-12-09	A	140.81	144.57	140.44	144.00	1547300
7	2024-11-29	AA	45.85	46.57	45.15	46.43	1785200
8	2024-12-03	AACT	10.94	10.94	10.91	10.93	15100
9	2024-12-03	AACT.WT	0.23	0.25	0.22	0.24	26300
10	2024-12-06	AAM.UN	10.10	10.10	10.10	10.10	953
11	2024-12-17	AAP	43.53	44.59	43.23	44.46	1455200
12	2024-12-09	AAP	45.45	48.95	45.27	47.44	4055300
13	2024-11-27	AAP	44.10	44.88	43.31	44.44	2051400
14	2024-11-29	AB	36.63	36.63	36.20	36.27	134300
15	2024-12-17	ABBV	170.58	176.50	170.21	175.38	7664700
16	2024-12-02	ABBV	182.28	182.70	178.86	181.77	3936600
17	2024-12-09	ABFL	70.82	70.82	69.80	69.80	89700
18	2024-12-06	ABG	261.70	262.98	256.03	258.98	99700
19	2024-12-16	ABHY	21.37	21.40	21.36	21.38	600
20	2024-11-29	ABR	14.79	14.96	14.67	14.67	1099600
21	2024-12-18	ACGR	60.05	60.05	58.05	58.23	800

Q23. Create a fact Table for trading data

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SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

STOCK_DB

INFORMATION_SCHEMA

PUBLIC

STOCK_SCHEMA

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FACT_TAB_TRADING

TRADING_BOOKS

WEIGHTS_TABLE

Views

airbyte_internal

STOCK_TRACKING_US_STOCK_PRICES...

SURVEY_DATABASE

STOCK_DB / STOCK_SCHEMA / FACT_TAB_TRADING

...

Load Data

Table

P4_ROLE

48 minutes ago

15

2.0KB

Table Details

Columns

Data Preview

Copy History

Lineage

COMPUTE_WH

15 Rows • Updated just now

	TRADE_ID	BUY_MONEY	SELL_MONEY	PROFIT
1	1001	17550	17825	275
2	1003	108500	109200	700
3	1005	20287.5	20425	137.5
4	1007	94875	95400	525
5	1009	10593.75	10687.5	93.75
6	1011	26437.5	26925	487.5
7	1013	136000	136875	875
8	1015	30543.75	30806.25	262.5
9	1017	126800	127500	700
10	1019	14225	14450	225
11	1021	35500	36050	550
12	1023	163500	164700	1200
13	1025	40950	41325	375
14	1027	158750	159750	1000
15	1029	17968.75	18281.25	312.5