

SNOWFLAKE THE CLOUD DATA PLATFORM

DATA...THE NEW FRONTIER











NEW TECHNOLOGY CHANGES HOW WE USE DATA

Diversification of Analytics



Analytics is growing in importance, everywhere, and for everyone

Explosion of Data



loT, mobile, and social open up new opportunities for insight

Rise of the Cloud



Cloud gives us the ability to scale and centralize data

TAKING A PLATFORM APPROACH LEADS TO BIG BUSINESS IMPACT

Make Better, Quicker Business Decisions



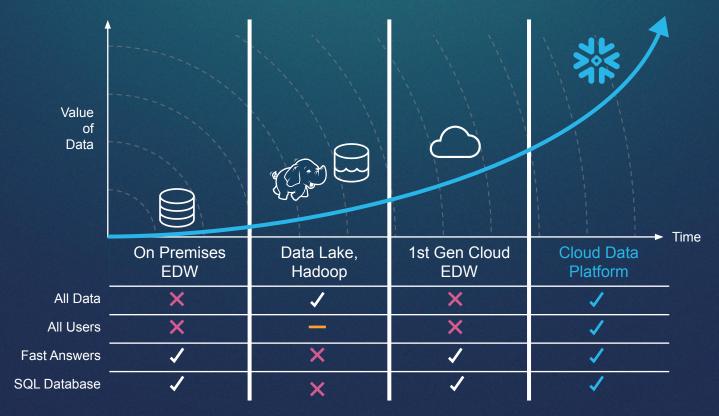
Reduce the Cost of Scaling Data Management and Analytics



Create a Great Customer Experience with Data

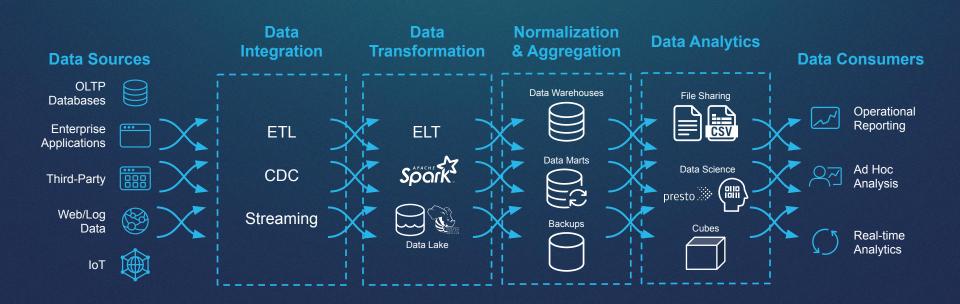


JOURNEY TO A CLOUD DATA PLATFORM



TRADITIONAL DATA ARCHITECTURE

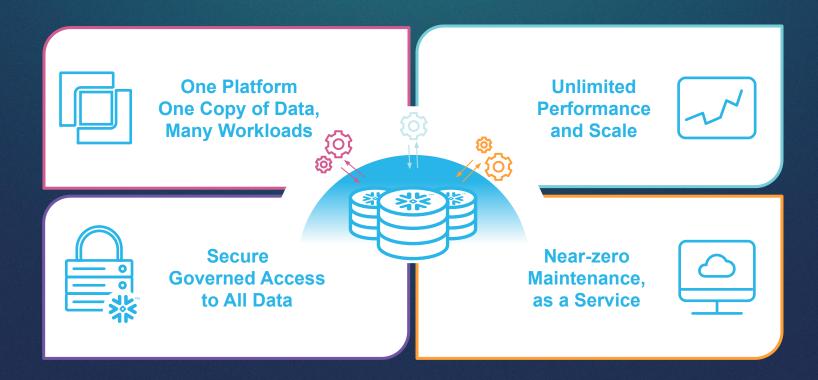
Complex and Costly with Multiple Copies of Data



MODERN DATA ARCHITECTURE WITH SNOWFLAKE



THE VALUE OF A CLOUD DATA PLATFORM



ONE PLATFORM, ONE COPY OF DATA, MANY WORKLOADS



Data Warehouse

Modernize data warehousing to deliver faster analytics at scale



Data Engineering

Rethink transformation with robust and integrated data pipelines



Data Lake

Simplify and accelerate your data lake with one platform for all your data



Data Applications

Develop apps with fast and scalable analytics that delight customers



Data Exchanges

Empower your ecosystem with secure, governed access to all data



Data Science

Simplify and accelerate machine learning and artificial intelligence

THE IMPACT OF A CLOUD DATA PLATFORM



MSKESSON

Empowering Healthcare

SITUATION

- Shift to the cloud with focus on speed and value
- Managing infrastructure
- Significant governance, regulatory requirements



VALUE

- 60+ analytics teams served by single cloud data platform
- Migrated in < 90 days
- Load speeds improving 86%
- 5x faster complex queries
- Improved governance and democratized insights

Sainsbury's

SITUATION

- Multiple data warehouses, some end-of-life
- Data silos caused ambiguity and reporting disparities
- Poor consumer insight



VALUE

- Diverse data ingested for analytics, data science
- Improved agility, scalability and analytics performance
- In depth customer knowledge and improved services



SITUATION / PAIN

- Painfully slow analytics cycles
- Limited ability to answer complex questions
- Inability to provide business continuity and ensure security



SOLUTION / VALUE

- Hundreds of newly empowered analysts
- Improved scalability and faster query times
- Guaranteed security and data availability, 24/7/365



















MCKESSON

















Sainsbury's







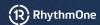








PROVEN BY OVER 3000 CUSTOMERS





































































Platform







BI/Analytics



COGNOS"

ThoughtSpot



CHARTIO



LIII



ATTUNITY

Informatica

ETL

alooma

snapLogic

talend

Fivetran

WhereScape[®] alteryx

Segment

EVER EXPANDING ECOSYSTEM

Data Science



















servian_





Services







cervello

INTRICITY





























TECHNICAL DEEP DIVE

HOW IS SNOWFLAKE UNIQUE?



A CLOSER LOOK

Traditional Architectures



Shared-disk

Additional capacity requires forklift upgrade

Reads/Writes at the same time cripples the system

Replication requires additional hardware



Shared-nothing

Resizing cluster requires redistributing data. Shut down requires unloading.

Each cluster requires its own copy of data (ex: test/dev, HA)

Vacuuming processes needed to maintain sort and distribution for performance

Snowflake



Multi-cluster, shared data

- Centralized, scale-out storage that expands and contracts automatically
- Independent compute clusters can read/write at the same time and resize instantly
- Automated backup across multiple availability zones/regions
- · AWS, Azure, GCP

SNOWFLAKE ARCHITECTURE









MODERN DATA ARCHITECTURE WITH SNOWFLAKE CLOUD DATA PLATFORM



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Cloud Services

Metadata Management Security Query Planning & Optimization Transactional Control







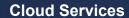
Data Science











Metadata Management Security Query Planning & Optimization

Transactional Control





External ETL/ELT Sales XS Data Sharing Multi-cluster **Snowpipe** Structured & semi-structured Clone XSL) **Cloud Services** Data protection & Data Metadata Management time travel **Dev Ops** Science Security **Query Planning & Optimization Transactional Control**

Finance/DBAs

SECURE BY DESIGN, DATA AVAILABILITY

Authentication



Access Control



Data Encryption



Validation

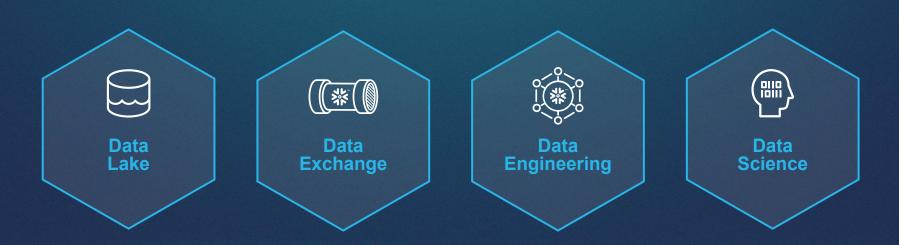
External

Data Availability



- Embedded multi-factor authentication
- Key Pair authentication
- Federated authentication / SSO supported
- IP whitelisting
- Roles-based access control model
- Granular privileges on all objects & actions
- All data encrypted, always, end-to-end
- Encryption keys managed automatically
- Certified against enterprise-class requirements
- PCI and HIPAA available
- User error: Time Travel, Failsafe, Cloning
- Zone failure: Data replicated to multiple zones in a region
- Region/Provider failure:
 Data replication & failover

MORE ON WORKLOADS



HOW DOES SCALABLE CLOUD DATA PLATFORM ENABLE DATA LAKES?

Snowflake

Data Lake

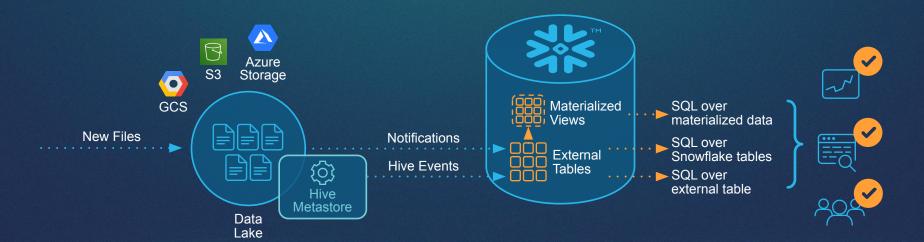
Attributes

- No silos all data
- W Open formats
- **Raw Representation**
- ****** Multiple workloads
- Cheap storage
- Schema on read

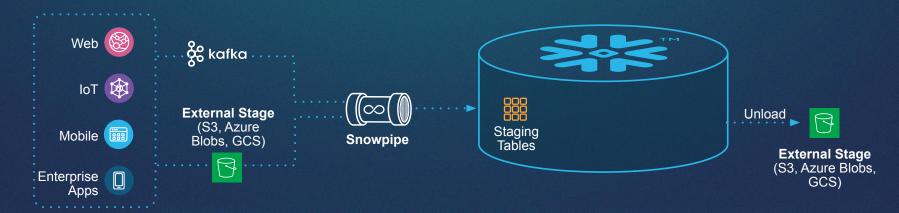
Additional Benefits

- Governance
- 🔆 Global
- * Transactional
- Performance
- Data sharing
- Managed service

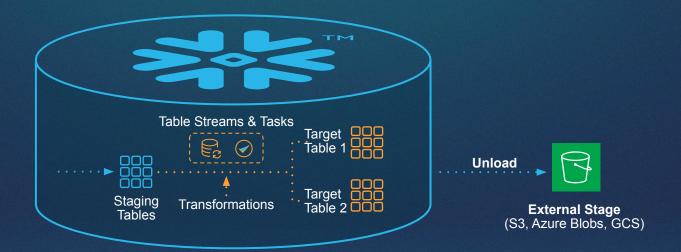
AUGMENTING EXISTING DATA LAKES



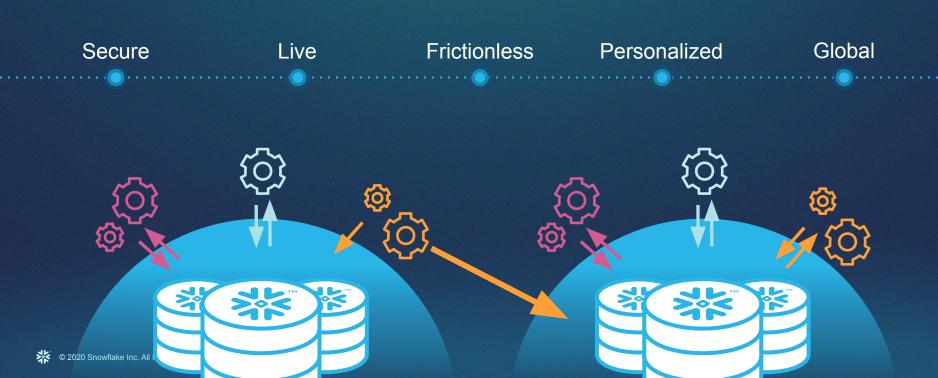
LOW LATENCY INGEST



SCALABLE TRANSACTIONAL TRANSFORMATIONS



SECURE DATA SHARING



ENABLING AI, ML, AND DATA SCIENCE

- Improving data science speed and efficiency with centralized source of high performance data
- Accelerating data exploration and preparation by 10-100x
- Connectors to leading and emerging technologies
- First class ecosystem of partners

















SPEAKER Q&A

JOIN US AFTER THE BREAK

FROM ZERO T®
SNOWFLAKE

in 90 minutes

powered by **aws**



THANK YOU

Data for Breakfast



DANIEL WELLINGTON

OUR JOURNEY TO SNOWFLAKE

Paul Flynn & Jakob Matto

HOOK US UP - WERE IN YOUR COMMUNITY NOW



THE STORY BEHIND

On a trip halfway across the world, founder Filip Tysander met an intriguing British gentleman with impeccable yet unpretentious style. The man had a particular fondness for wearing his vintage watches on old, weathered NATO straps. Inspired by his new acquaintance, Filip created his own line of watches - minimalist and refined. The man's name? Daniel Wellington.



TODAY* WE ARE

2200+
TALENTS

20 OFFICES WORLDWIDE

STOCKHOLM, UPPSALA, HONG KONG, TOKYO, SINGAPORE, SEOUL, SYDNEY NEW YORK, MEXICO CITY, SHENZHEN SHANGHAI, LONDON, COLOGNE MILAN, MOSCOW, PARIS MUMBAI, CAPE TOWN, ISTANBUL, DUBAI

*JANUARY 2019

GLOBAL PRESENCE

DEVELOPMENT OF ESTABLISHED MARKETS SINCE 2011 / DW OFFICES WORLDWIDE

































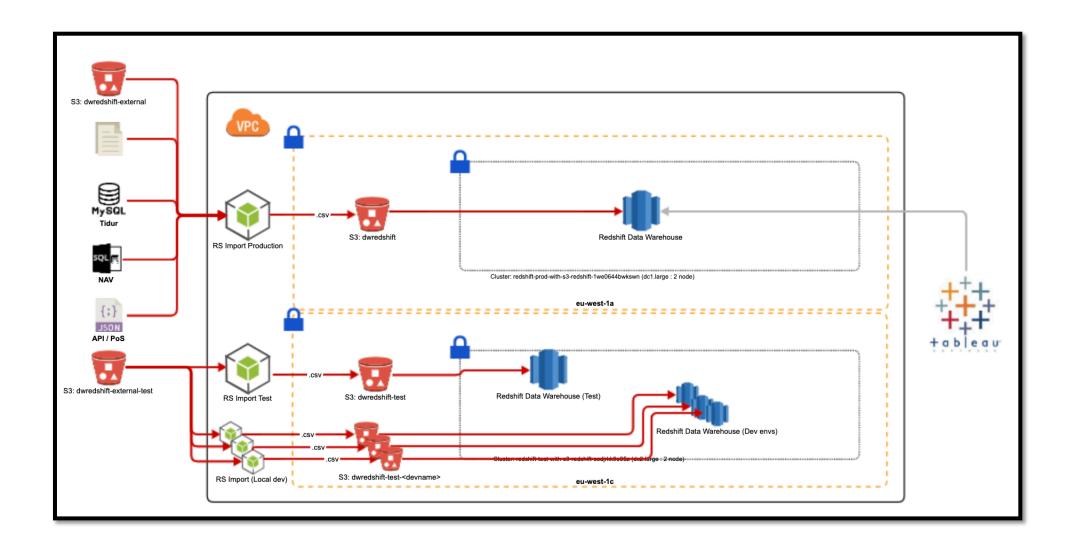
WHY DID WE NEED TO CHANGE ANYTHING?



AWS

- No legacy on-prem and born in the cloud
- Redshift
 - Performance: scales as a set of servers, not as a service
 - Concurrency and table locking
 - Distribution, Vaccuming, Indexing, patching, uptime, environments
 - Ultimately Postgres is a conventional server database that wasn't built for the cloud and we are not interested in infrasructure or maintenance

AWS DATA WAREHOUSE ARCHITECTURE

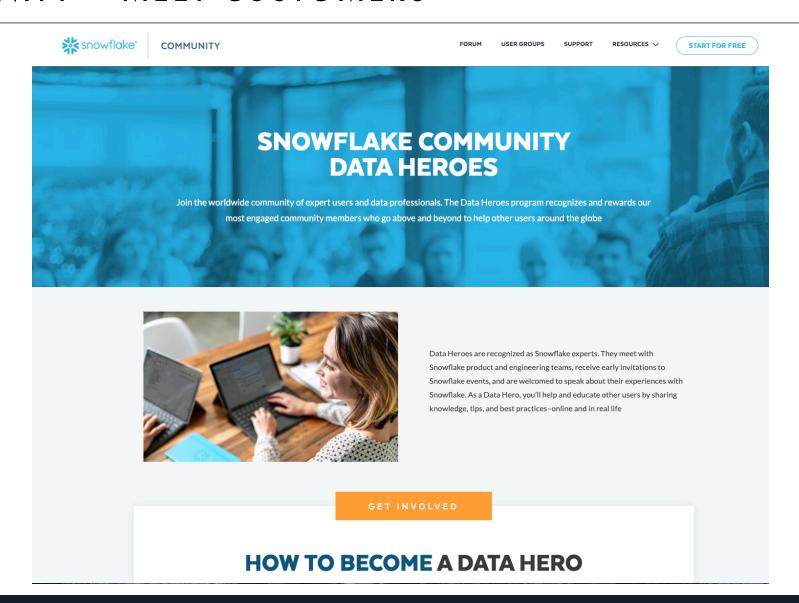




SNOWFLAKE MVP

- Test Snowflake, because curiosity is often free
- Build your relationships in the community
- Sell the vision
- Utilize a business case and get an MVP built

COMMUNITY - MEET CUSTOMERS

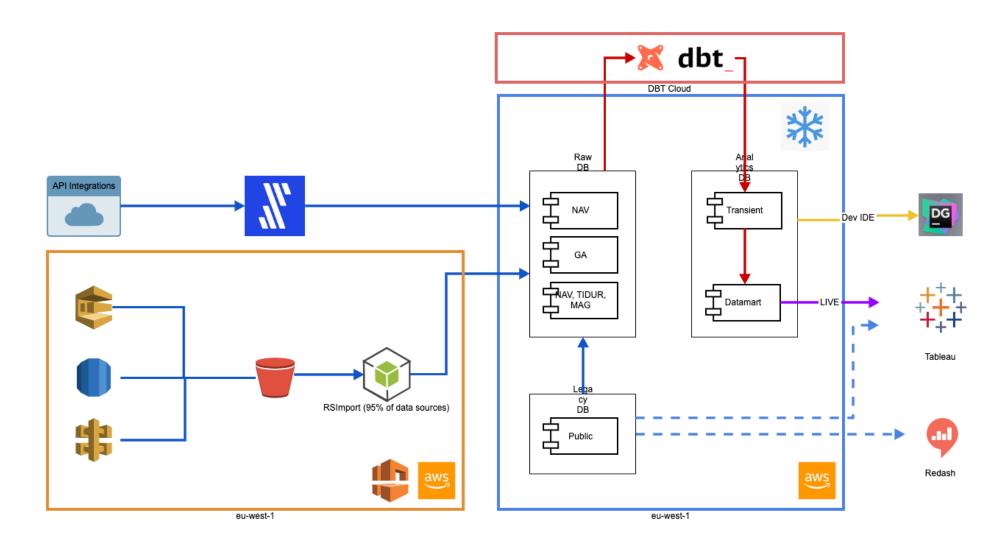




MIGRATE - PHASE 1

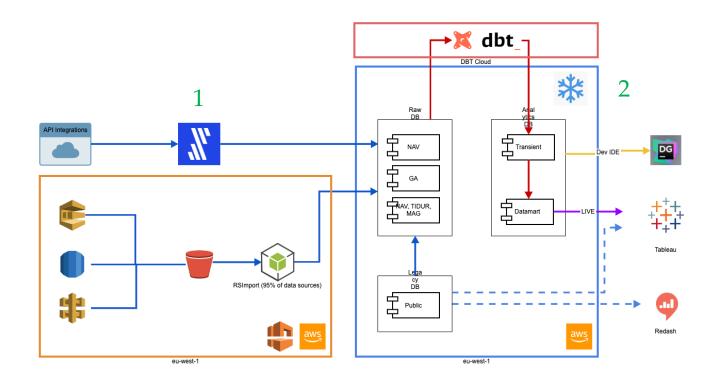
- Get across to Snowflake ASAP
- Re-use what you can Snowflake Import
- Just go live we are there right now!
- An amazing team helps and some of them are here today

DW DATAWAREHOUSE - A FOCUS ON SAAS



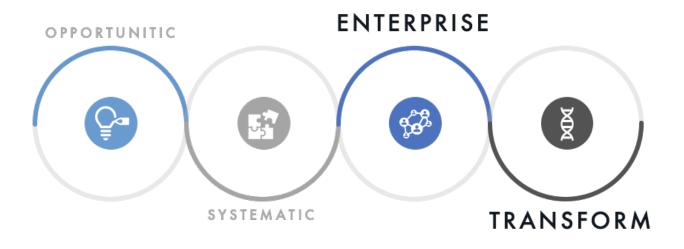
PHASE 2: WHERE THE FOCUS SHOULD ALWAYS HAVE BEEN

- 1. Integration has been commoditised so adapt!
- 2. Stronger focus on business logic and processes



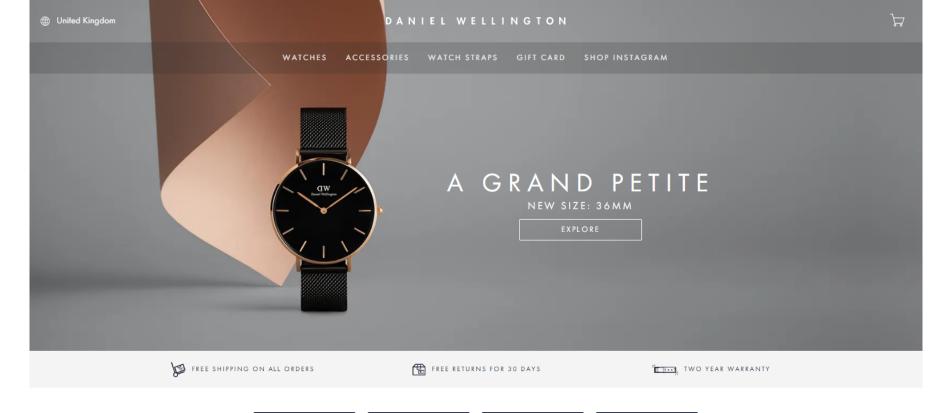
PHASE 3: TACKLE ANALYTICS ADOPTION

- DW Data Culture
- Moving through the BI maturity curve









WATCHES

STRAPS

RINGS

BRACELETS

THE PETITE MESH - NOW IN SIZE 36





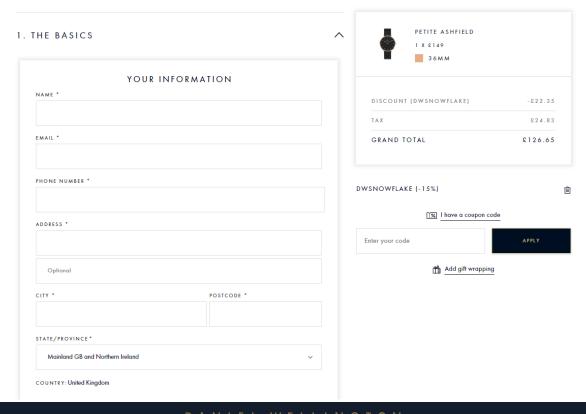




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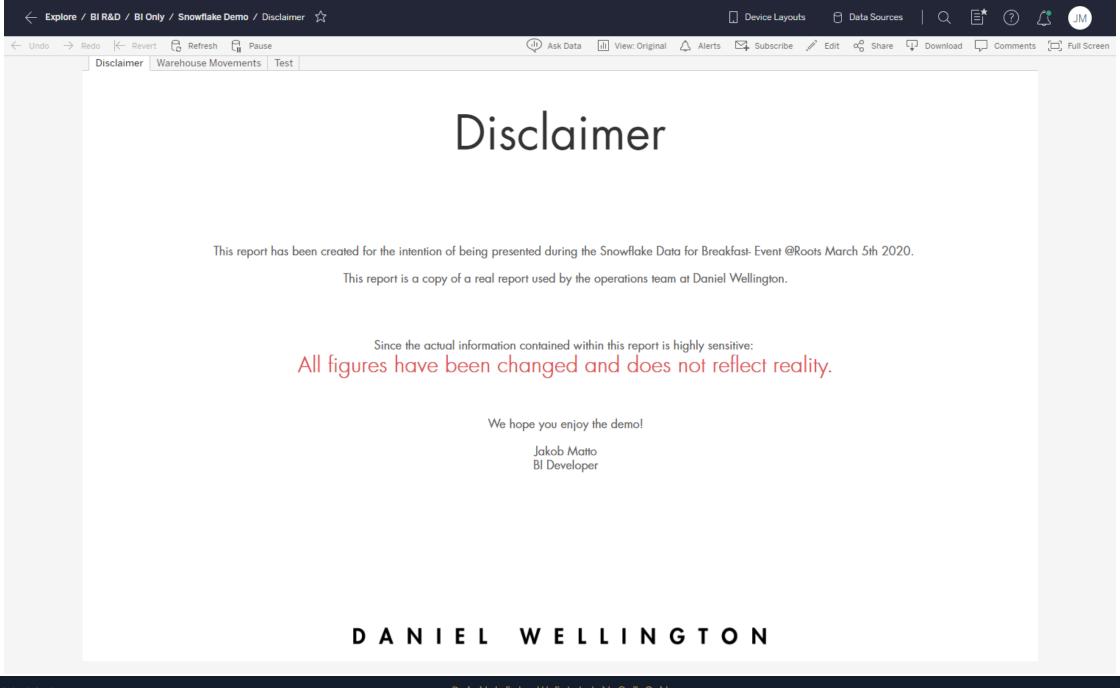
CHECKOUT

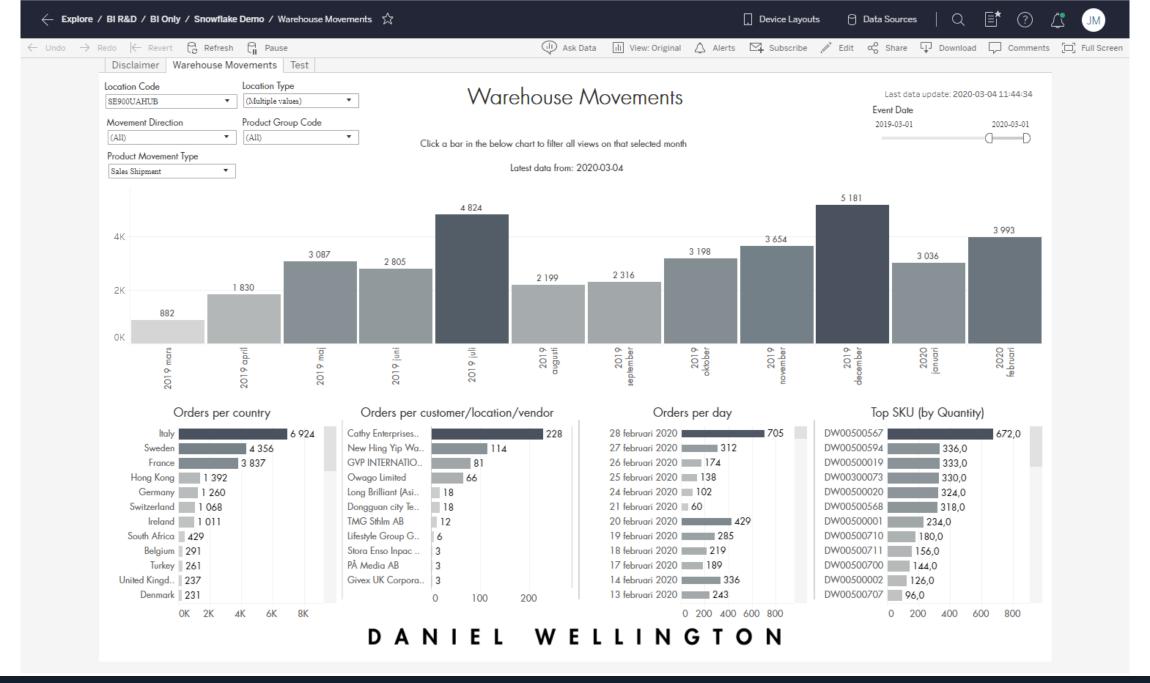


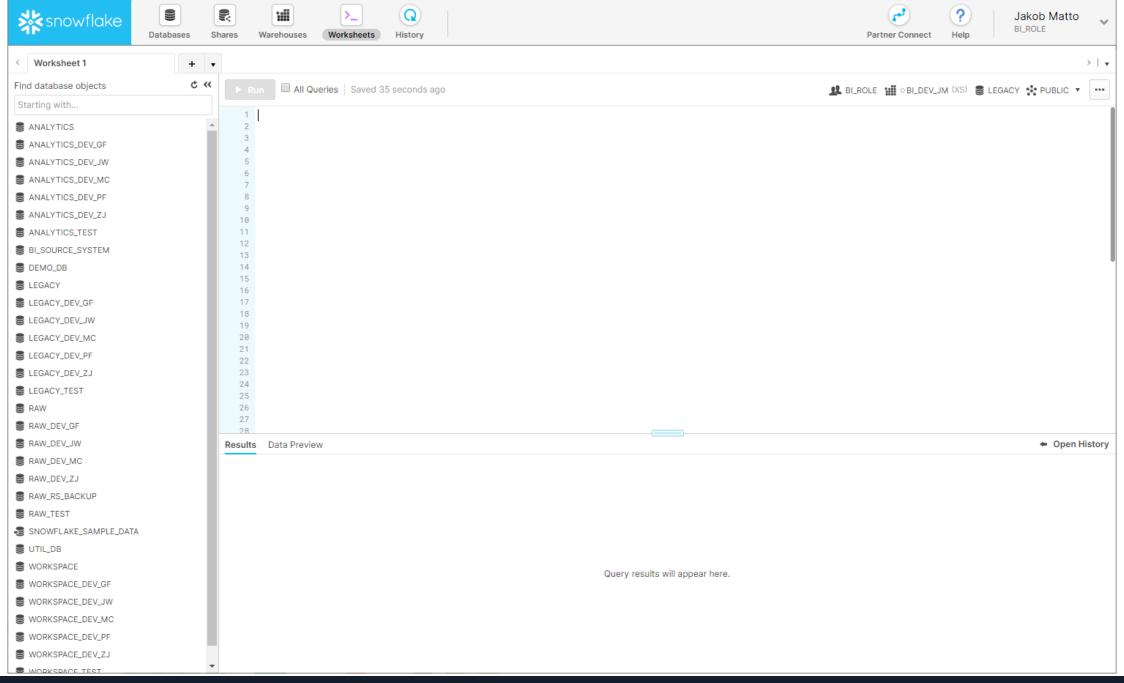


THANK YOU

• In case of demo ghosts → use the following slides instead of live demo



















Partner Connect H

Jakob Matto BI_ROLE

History

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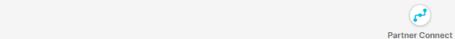














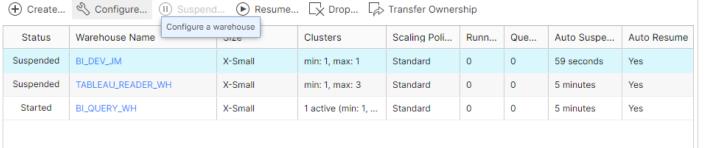
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Jakob Matto BI_ROLE

Owner

Warehouses

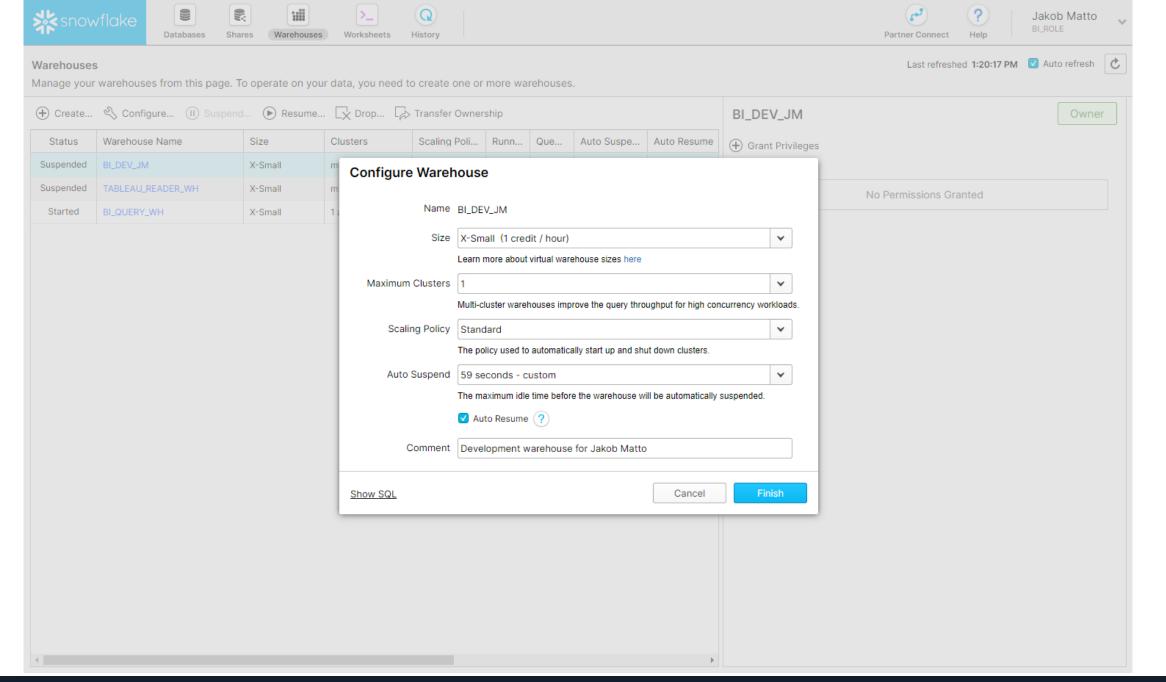
Manage your warehouses from this page. To operate on your data, you need to create one or more warehouses.

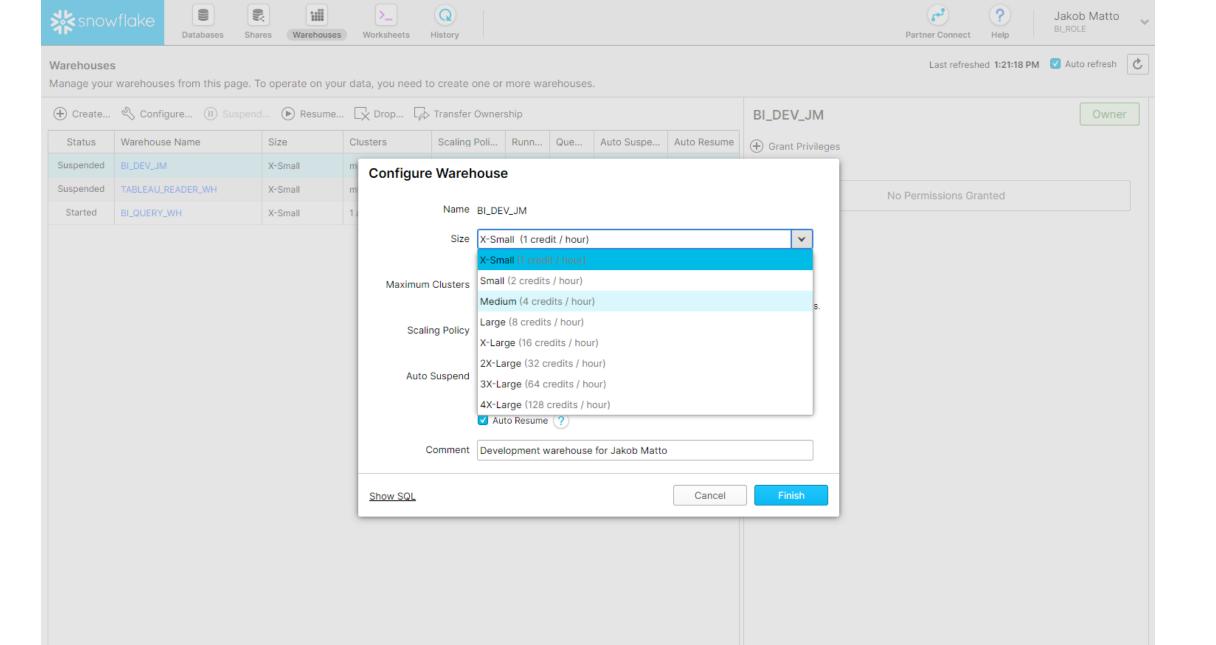




+ Grant Privileges

No Permissions Granted







Configure Warehouse

Maximum Clusters

Scaling Policy

Auto Suspend

Show SQL

Comment 8

10

Name BI_DEV_JM

Size Medium (4 credits / hour)

Learn more about virtual warehouse sizes here

X-Small

X-Small

X-Small

Suspended

Suspended

Started

BI_QUERY_WH

~

No Permissions Granted











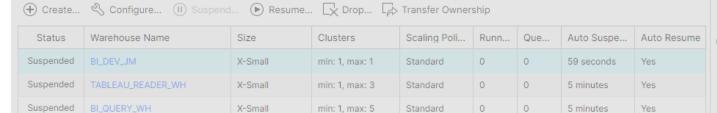


Jakob Matto

Partner Connect Help

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Manage your warehouses from this page. To operate on your data, you need to create one or more warehouses.





(+) Grant Privileges

No Permissions Granted

SQL

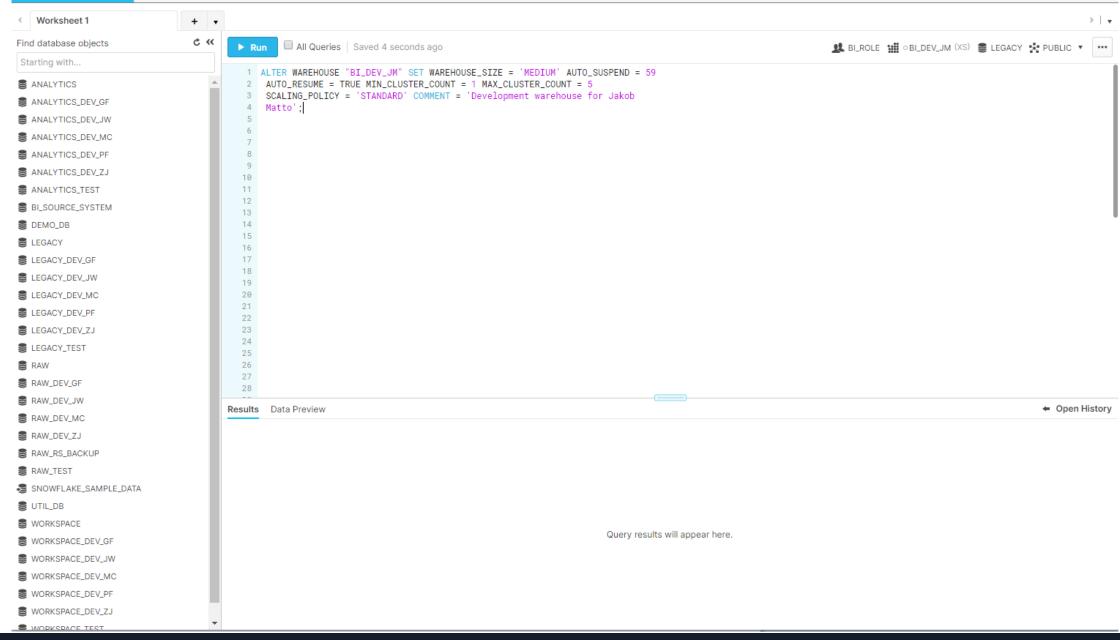
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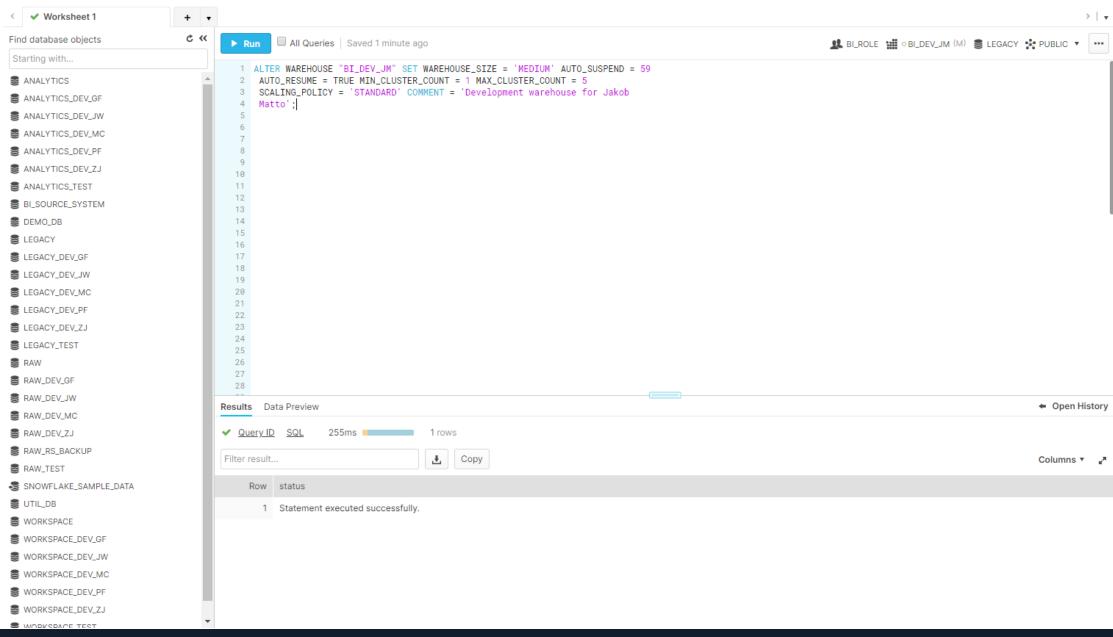
Select SQL

Close

Help

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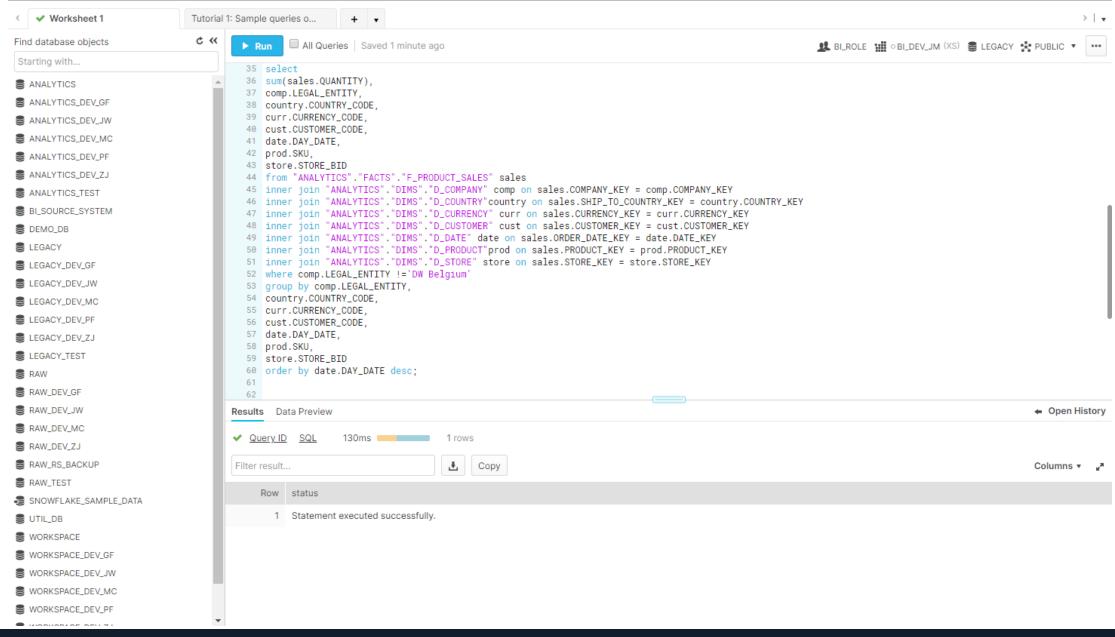






Partner Connect

Jakob Matto BI_ROLE











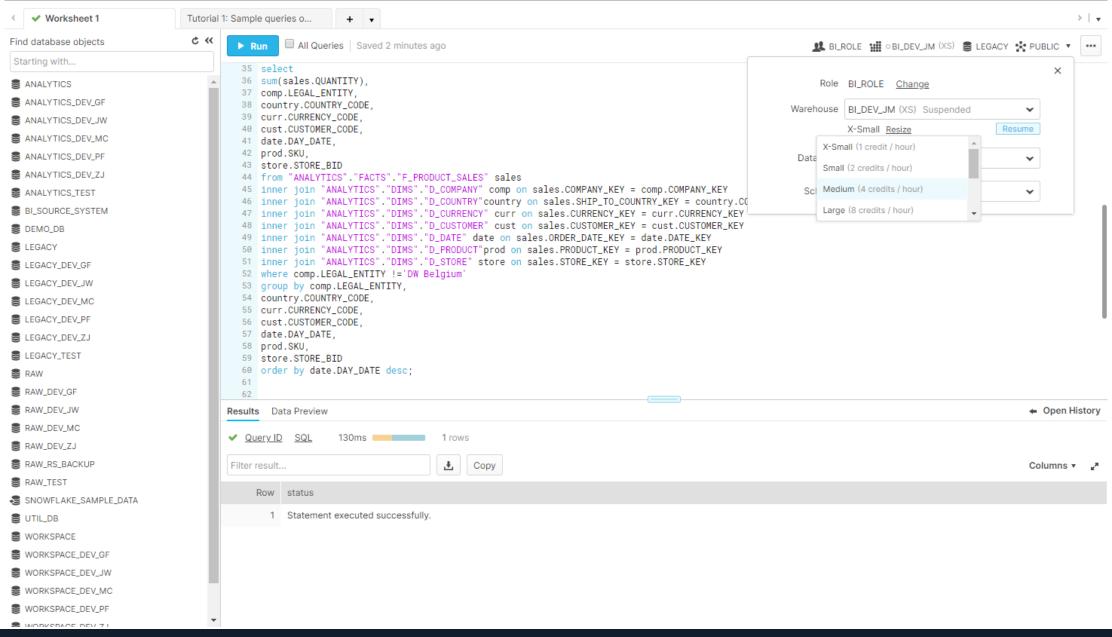


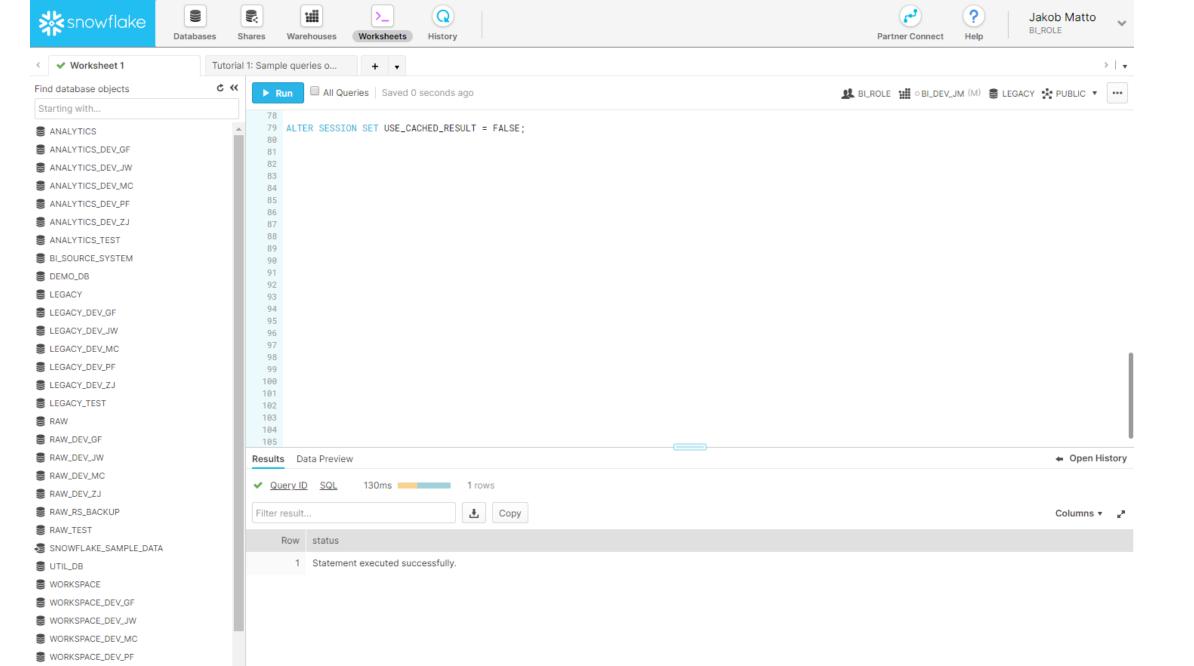




? Partner Connect

Jakob Matto BI_ROLE





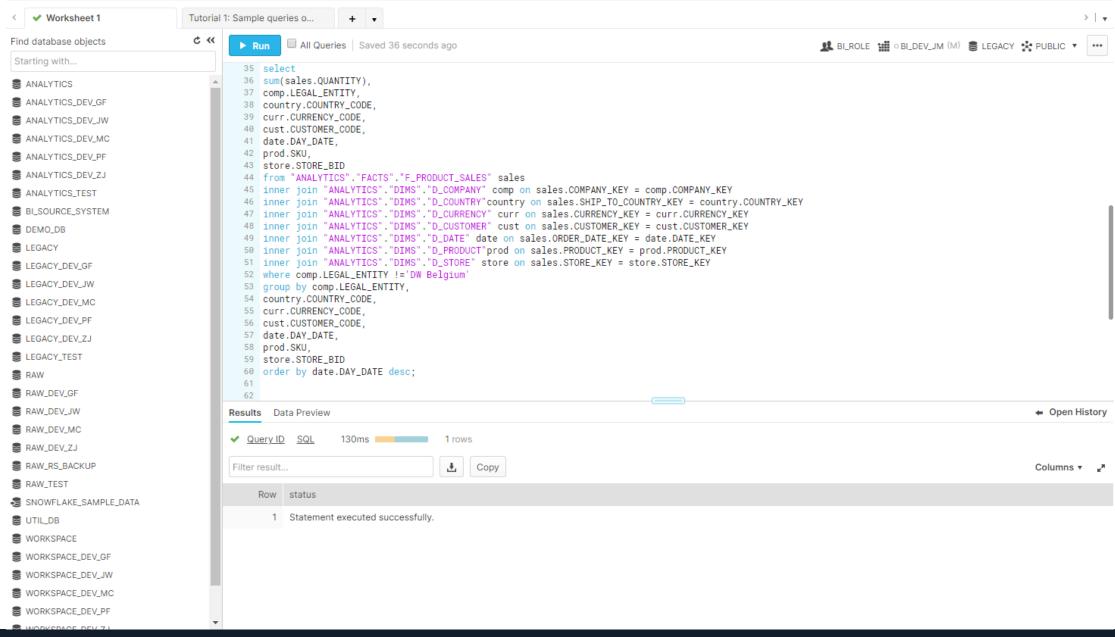
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Partner Connect

Jakob Matto BI_ROLE















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Jakob Matto BI_ROLE

Worksheets History Warehouses

		Parti

History

Pi Hide Filters View SQL Abort													
Display queries that meet all of the following criteria:										Clear filters			
User is JAKOB.MATTO@DANIELWELLINGTON													
☐ Include client-generated statements													
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Include que	eries executed by	y user tasks											
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✓	0192a91a	select sum(sales.QUANT	JAKOB.MAT	BI_DEV_JM	1	X-Small	4077212574	1:42:07 PM	1:42:38 PM	31.5s	666.4MB	10.8M	
✓	0192a91a	ALTER SESSION SET US	JAKOB.MAT	BI_DEV_JM			4077212574	1:42:02 PM	1:42:02 PM	55ms			
✓	0192a919	select sum(sales.QUANT	JAKOB.MAT	BI_DEV_JM			4077212574	1:41:26 PM	1:41:27 PM	496ms			
✓	0192a917	select sum(sales.QUANT	JAKOB.MAT	BI_DEV_JM	1	X-Small	4077212574	1:39:41 PM	1:40:11 PM	30.0s	666.4MB	10.8M	
✓	0192a90e	ALTER WAREHOUSE "BI	JAKOB.MAT				4077212573	1:30:19 PM	1:30:19 PM	124ms			
✓	0192a90d	ALTER WAREHOUSE "BI	JAKOB.MAT	BI_DEV_JM			4077212574	1:29:00 PM	1:29:00 PM	255ms			
✓	0192a8e0	SELECT "V_PRODUCT_M	JAKOB.MAT	BI_DEV_JM	1	X-Small	4077212574	12:44:47 PM	12:45:10 PM	23.6s	268.4MB	18	
✓	0192a8e0	SELECT "V_PRODUCT_M	JAKOB.MAT	BI_DEV_JM	1	X-Small	4077212574	12:44:47 PM	12:45:10 PM	23.3s	268.4MB	13	
✓	0192a8e0	SELECT "V_PRODUCT_M	JAKOB.MAT	BI_DEV_JM	1	X-Small	4077212573	12:44:47 PM	12:45:10 PM	23.2s	268.4MB	2	
✓	0192a8e0	SELECT "V_PRODUCT_M	JAKOB.MAT	BI_DEV_JM	1	X-Small	4077212574	12:44:47 PM	12:45:10 PM	22.7s	269.3MB	2	
✓	0192a8e0	SELECT MIN((CASE WH	JAKOB.MAT	BI_DEV_JM	1	X-Small	4077212574	12:44:47 PM	12:45:02 PM	15.6s	268.4MB	1	
~	0192a8e0	SELECT "V_PRODUCT_M	JAKOB.MAT	BI_DEV_JM	1	X-Small	4077212574	12:44:47 PM	12:44:59 PM	12.2s	259.7MB	24	+

Snowflake & Data @ Voi•

Björn Idrén
Head of Business Intelligence & Analytics
Voi Technology

Before Voi



- Ericsson Sales, Tech, Product, Business Intelligence.
- IPX, Business Intelligence.
- Klarna, Business Intelligence & Data Warehousing.
- Soundtrack Your Brand / Spotify Business, Business Intelligence & Analytics

This is VO

VOI is a fun, safe and green transport option that changes how people move in the city.

- Startup
- 550+ Employees
- 35+ Cities
- 10 Countries

- Operational Heavy
- Founded September 2018
 Intense Need for Data & Insights
 - Fast Changing, Fast Pace
 - {any other words describing a positive
 - chaos with exponential growth}



Data/Bl Setup

- All Data reside in the Cloud
- Everyone on Mac (all but finance..)
- Minimalistic Lake -> DW
- Snowflake Partner Solita









10+ SaaS product for growth

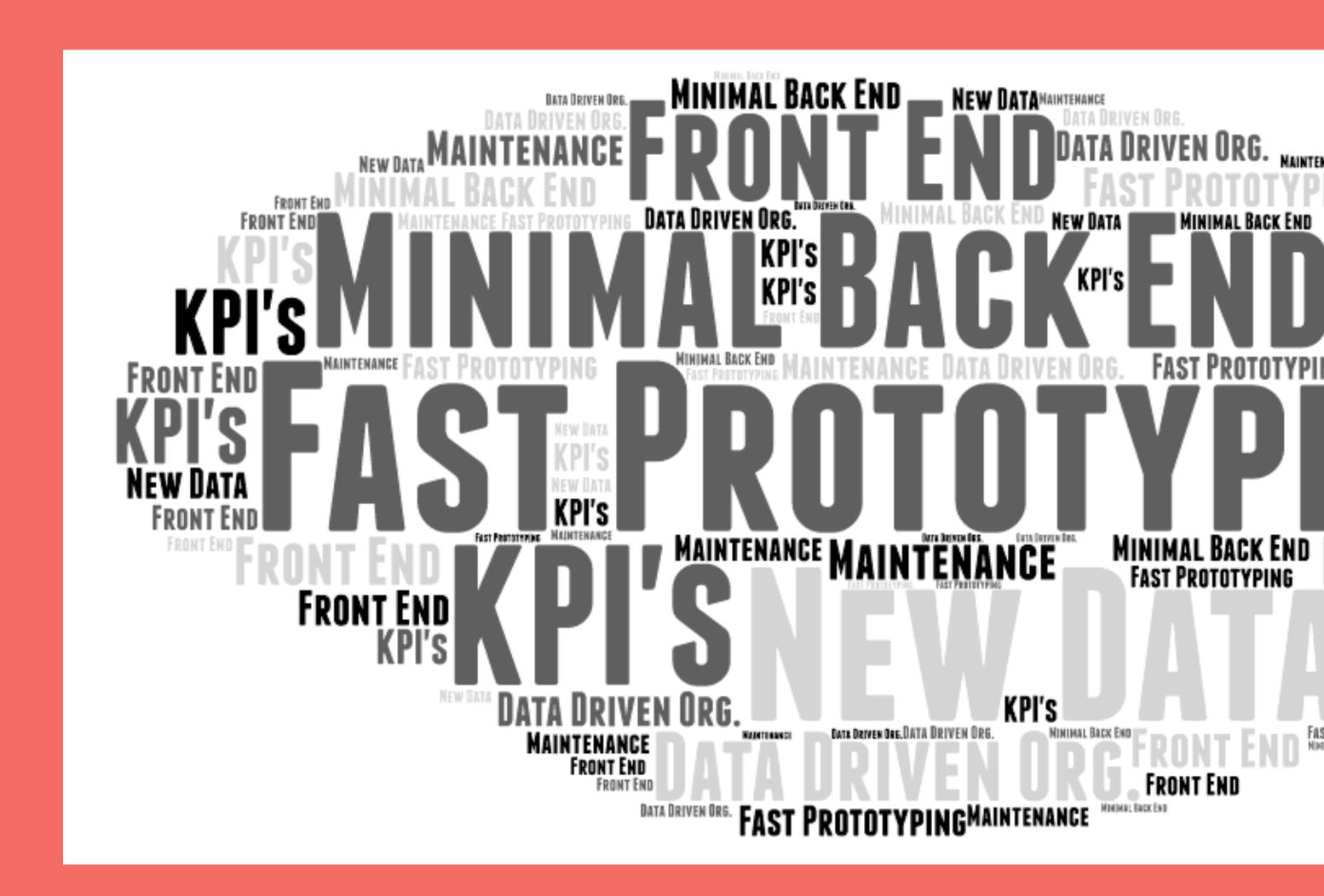
Traditional Business Intelligence

- 2-3 teams
- Delivery organisations
- Requirements given from the business
- Mature(r) understanding of BI in the business
- Speed < 100% accuracy
- Often little to no effort on utilising existing data



Startup Business Intelligence

- One person at best
- Speed > 100% accuracy
- Prototyping
- Bl not an established function
- Evangelist mode



Speed of Iteration Utilize existing at Driven? Share the data with everyone

An individual without information can't take responsibility.

An individual with information can't help but take responsibility.

- Jan Carlzon

Data Driven Prototyping Voi

Share data

First attempt mapping rides on a map



Examples

Data Prototyping Voi



Johanna Nyberg

@JHNyberg

Head of Traffic Management at City of Espoo, Finland.

Liikenteenhallintapäällikkö, Espoon kaupunki, Esbo stad.

O Helsinki

Joined April 2012

Tweet to Johanna Nyberg

163 Photos and videos













Tweets 575

Following 379

Followers

662

Likes **1,166**

Tweets

Tweets & replies

Media



Johanna Nyberg @JHNyberg · 1h

This map shows #Voi scooter travel paths in #Helsinki. The number of rides during the first week is pretty incredible considering the limited number of scooters.



Example - Voi

This shows how Voi served 9 079 Stockholm citizens and 1 009 tourists on June 25th, 2019.

All in all – we provided **16 482** rides with our fleet which that day consisted of **2 697** scooters out on the streets of Stockholm. The scooters were ridden for a total distance of **19 430** kilometers with a total Co2 emission savings of **3,7** tonnes compared to if these trips would have been made using a regular fossil-driven car.

We think we're on to something and that we fill a need for our customers. During that day we served **10 441** customers in total and we were given the opportunity to serve **1 538** customers that used our service for the first time.

We think most of them were happy with their first experience – **79**% of them are now loyal and have continued to use the service since that day.

voi.



Live demo - Voi

Click Me