



INFINITE  
LAMBDA

# DATAOPS JOURNEY TO AN ENTERPRISE READY dbt PLATFORM

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# AGENDA

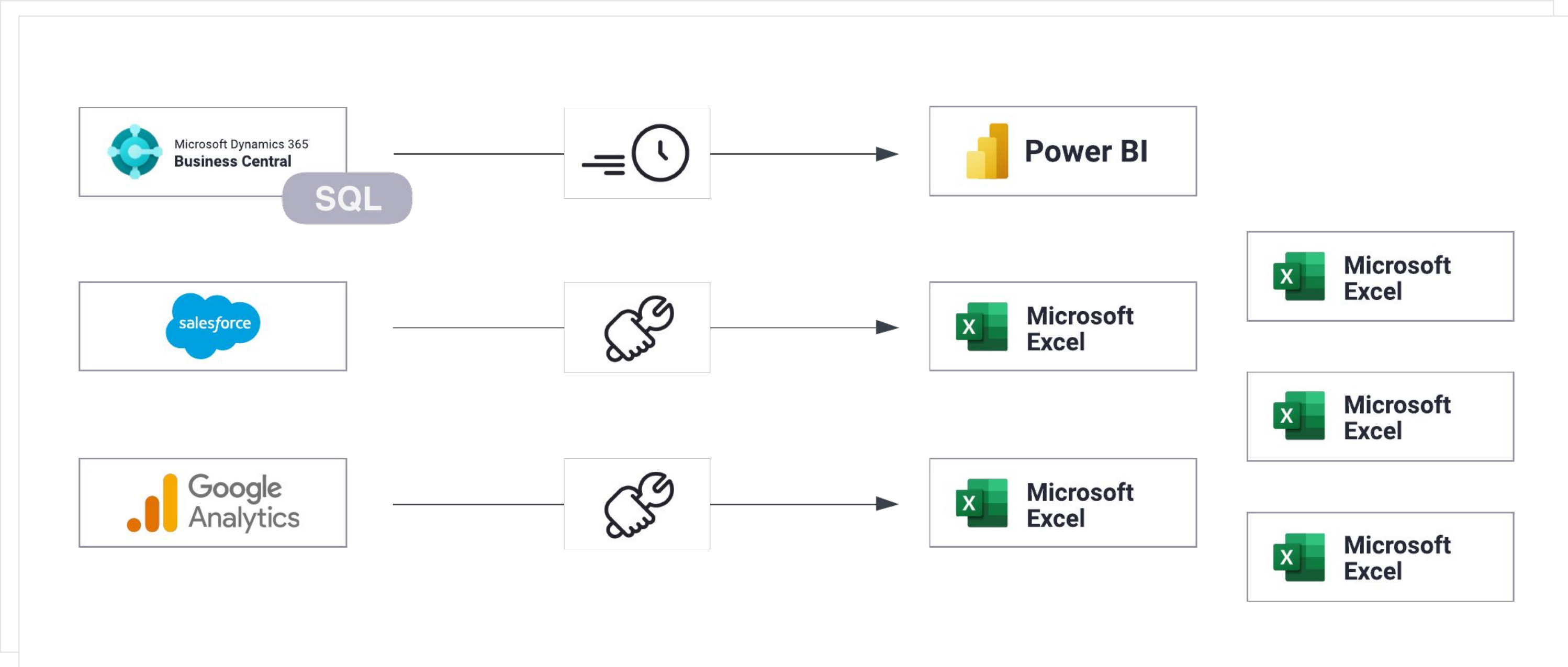
- 1. The client needs scalable reporting**
  - a. We can build it**
  - b. It has to be robust**
  - c. It has to be secure and compliant**
- 2. We need good workflows**
  - a. Data Ops**
  - b. Blue/Green releases**
  - c. Environments**
- 3. Where are we now**

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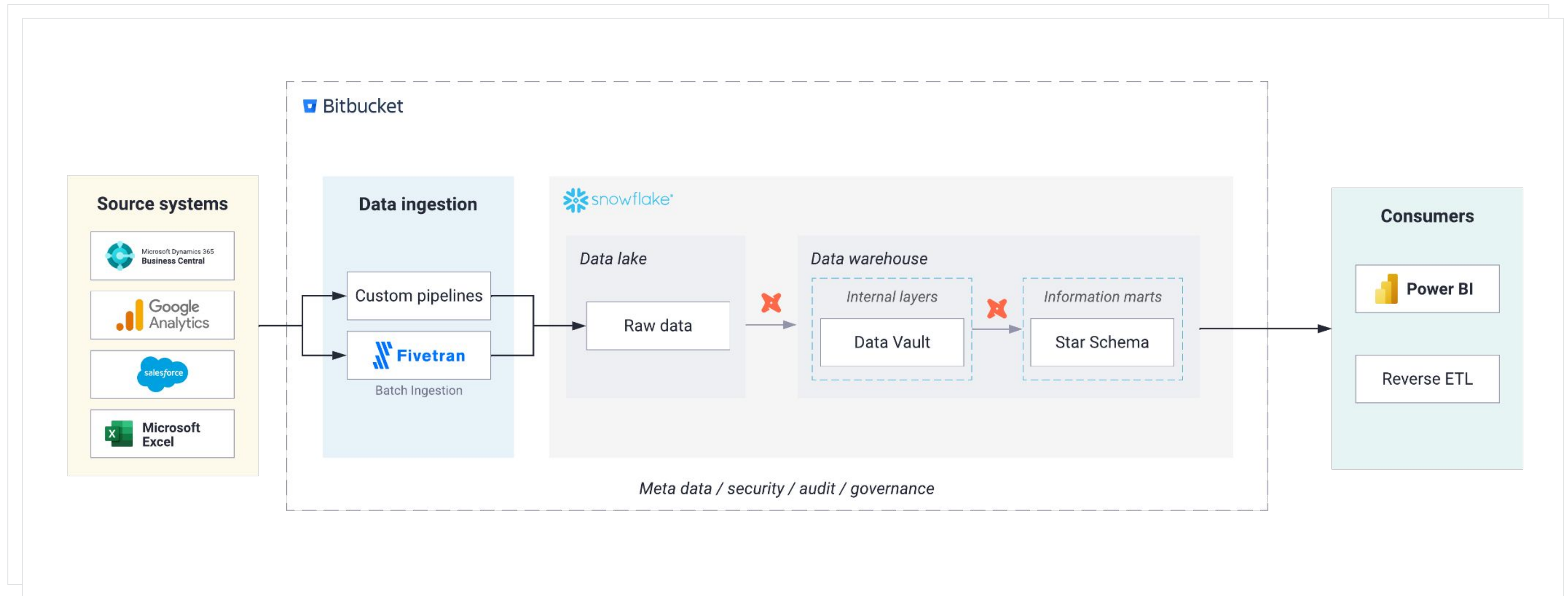
# SCALABLE REPORTING

BECAUSE THE CLIENT NEEDS IT

# THE CLIENT NEEDS SCALABLE REPORTING



# WE CAN BUILD IT



# HAS TO BE ROBUST – TEST IT AND FIX IT!

```

name: dim_customer
description: >
  The latest view of Customer, on global customer granularity.
  Primary keys:
  - global_customer_hkey
tests:
  # Data Freshness
  - dq_tools.recency_db:
    datepart: day
    field: effective_from
    interval: 7
    severity_level: warn
columns:
  - name: global_customer_hkey
    description: "Hashed version of GCID"
    tests:
      # Unique key
      - dq_tools.not_null_where_db
      - dq_tools.unique_where_db
      # Key exists in Customer SCD2
      - dq_tools.relationships_where_db:
        to: ref('dim_customer_hist')
        field: global_customer_hkey
  
```

	DATA_ENTITY	TEST_ID	EXECUTION_DATE	STATUS	PREVIOUS_EXECUTION_DATE	PREV
1	Stock	fact_stock_weekly - equal row count - fact_stock	2023-06-05	pass	2023-06-04	warn
2	Unknown-sq	sq_bazaarvoice__product_rating ingested_at recency -	2023-06-05	pass	2023-06-04	warn
3	Unknown-dv_prep	dv_prep_bv__item_product_rating__eff_sat product_rating_key, effective_from uniqu	2023-06-05	warn	2023-06-04	pass
4	Unknown-sq	sq_nrt_sales_return_detail_ns returned_at recency -	2023-06-05	pass	2023-06-04	warn
5	Campaigns & Coupons	dq_sfcc_assignment _fivetran_synced recency -	2023-06-05	warn	2023-06-04	pass
6	Campaigns & Coupons	dq_sfcc_promotion _fivetran_synced recency -	2023-06-05	warn	2023-06-04	pass
7	Unknown-sq	sq_bazaarvoice__product_review ingested_at recency -	2023-06-05	pass	2023-06-04	warn
8	Campaigns & Coupons	dq_sfcc_campaign_promotion _fivetran_synced recency -	2023-06-05	warn	2023-06-04	pass
9	Unknown-sq	sq_nrt_sales_order_detail_ns created_at recency -	2023-06-05	pass	2023-06-04	warn
10	Replen and Mins_VW	dim_replen - business test IL-Replen-Recon -	2023-06-04	pass	2023-06-03	warn
11	Stock	fact_stock_weekly - equal row count - fact_stock	2023-06-04	warn	2023-06-03	pass
12	Unknown-sq	sq_bazaarvoice__product_rating ingested_at recency -	2023-06-04	warn	2023-06-03	pass
13	Unknown-dv_prep	dv_prep_bv__item_product_rating__eff_sat product_rating_key, effective_from uniqu	2023-06-04	pass	2023-06-03	warn
14	Campaigns & Coupons	dq_sfcc_assignment _fivetran_synced recency -	2023-06-04	pass	2023-06-03	warn
15	Campaigns & Coupons	dq_sfcc_promotion _fivetran_synced recency -	2023-06-04	pass	2023-06-03	warn
16	Unknown-sq	sq_bazaarvoice__product_review ingested_at recency -	2023-06-04	warn	2023-06-03	pass
17	Campaigns & Coupons	dq_sfcc_campaign_promotion _fivetran_synced recency -	2023-06-04	pass	2023-06-03	warn
18	Replen and Mins_VW	dim_replen - business test IL-Replen-Recon -	2023-06-03	warn	2023-06-02	pass

# CUSTOMER DATA IS SECURE AND WE ARE GDPR-COMPLIANT

```
12 use role role_analytics_prod;  
13 select global_customer_hkey, email_bc  
14 from analytics_prod.analytics_data.dim_customer  
15 where email_bc like '%@infinitelambda.com'
```

Results Chart

	GLOBAL_CUSTOMER_HKEY	...	EMAIL_BC
1	3E1B00037EEDB90082EE658A29AB06AA		@infinitelambda.com

```
4 use role role_analytics_pii_prod;  
5 select global_customer_hkey, email_bc  
6 from analytics_prod.analytics_data.dim_customer  
7 where email_bc like '%@infinitelambda.com'
```

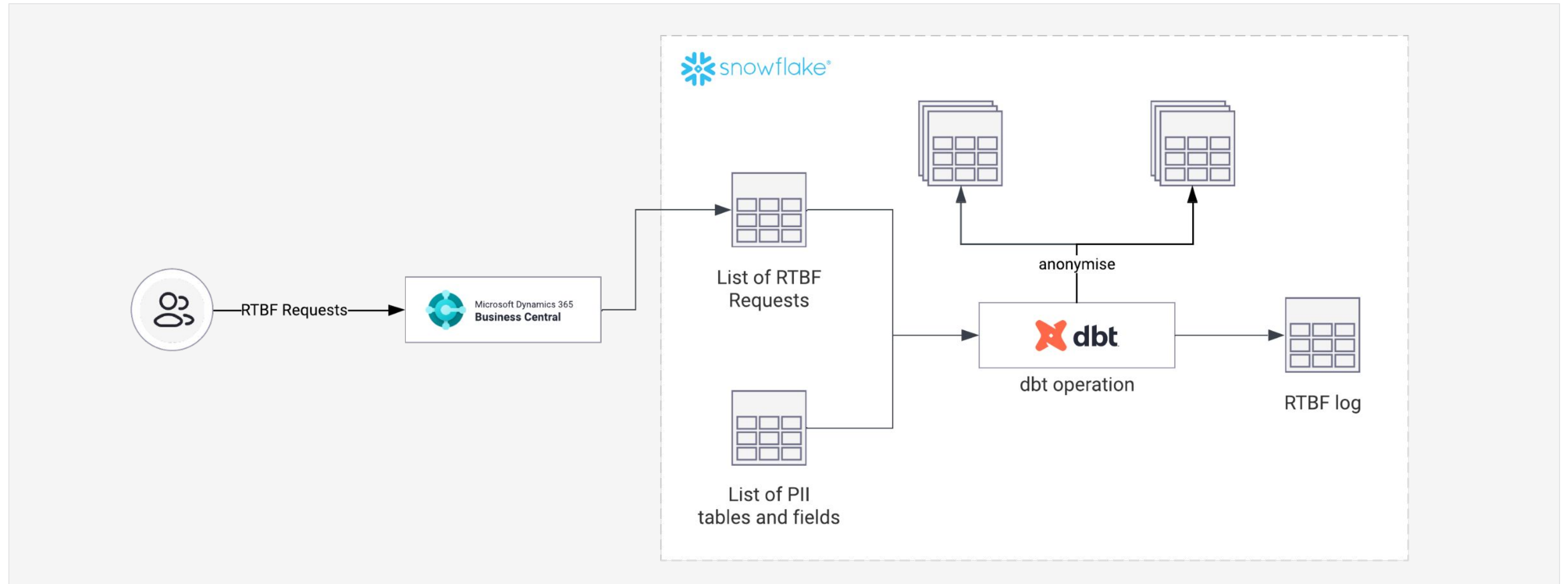
Results Chart

	GLOBAL_CUSTOMER_HKEY	...	EMAIL_BC
1	3E1B00037EEDB90082EE658A29AB06AA		joey@infinitelambda.com

```
- name: email_bc  
  description: "Email. Source: BC"  
  meta:  
    masking_policy:email
```



# CUSTOMER DATA IS SECURE AND WE ARE GDPR-COMPLIANT

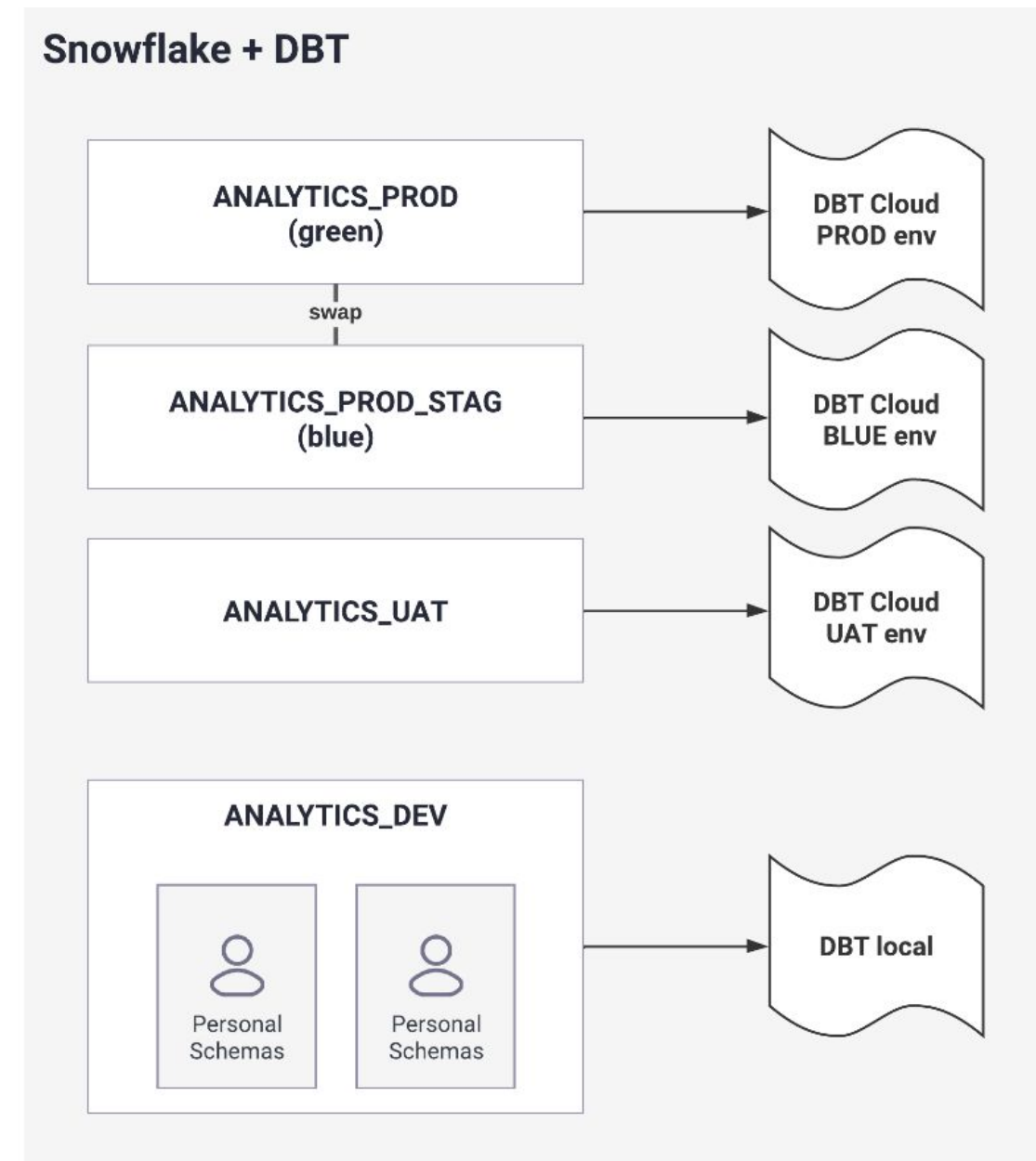
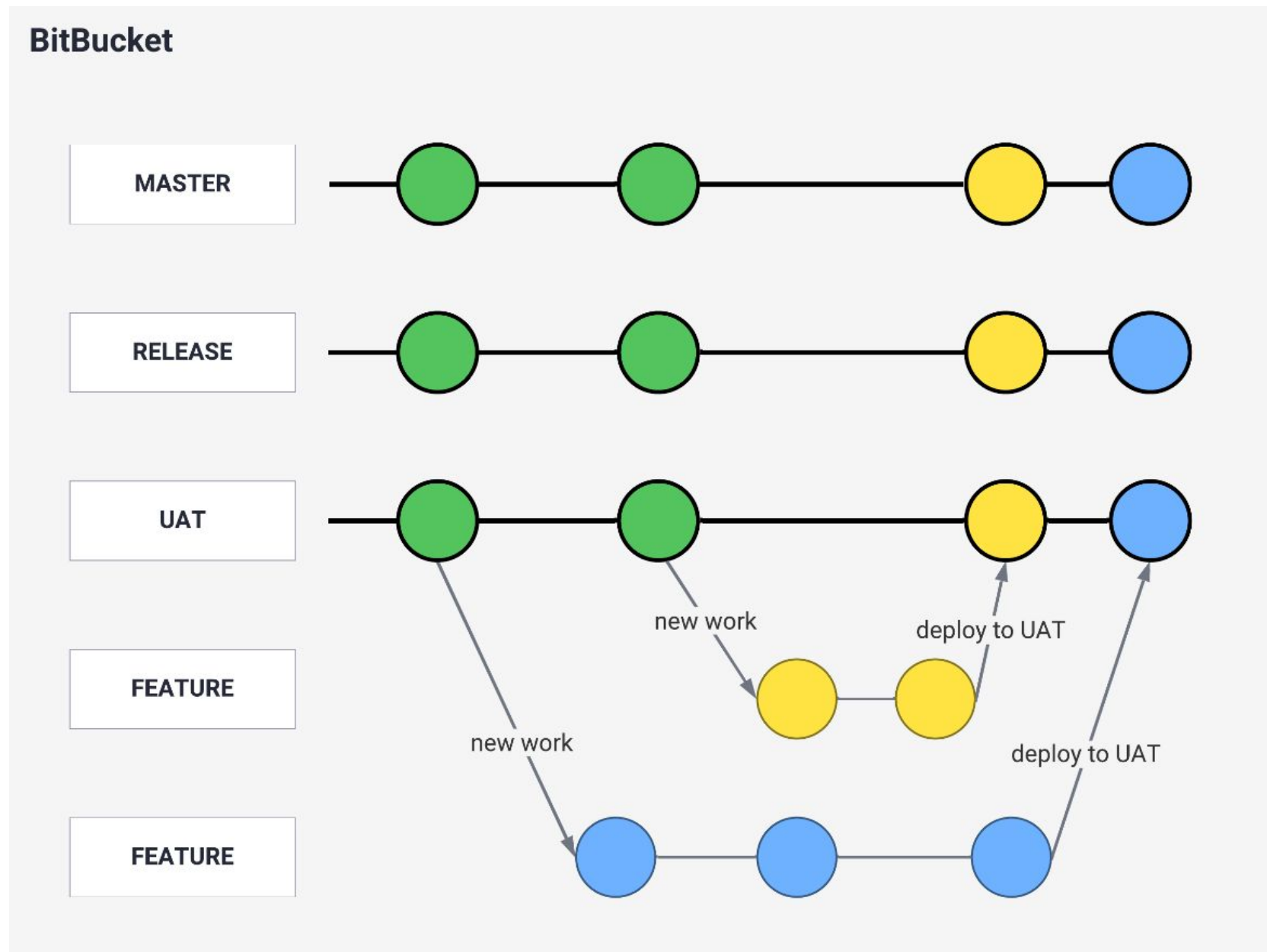


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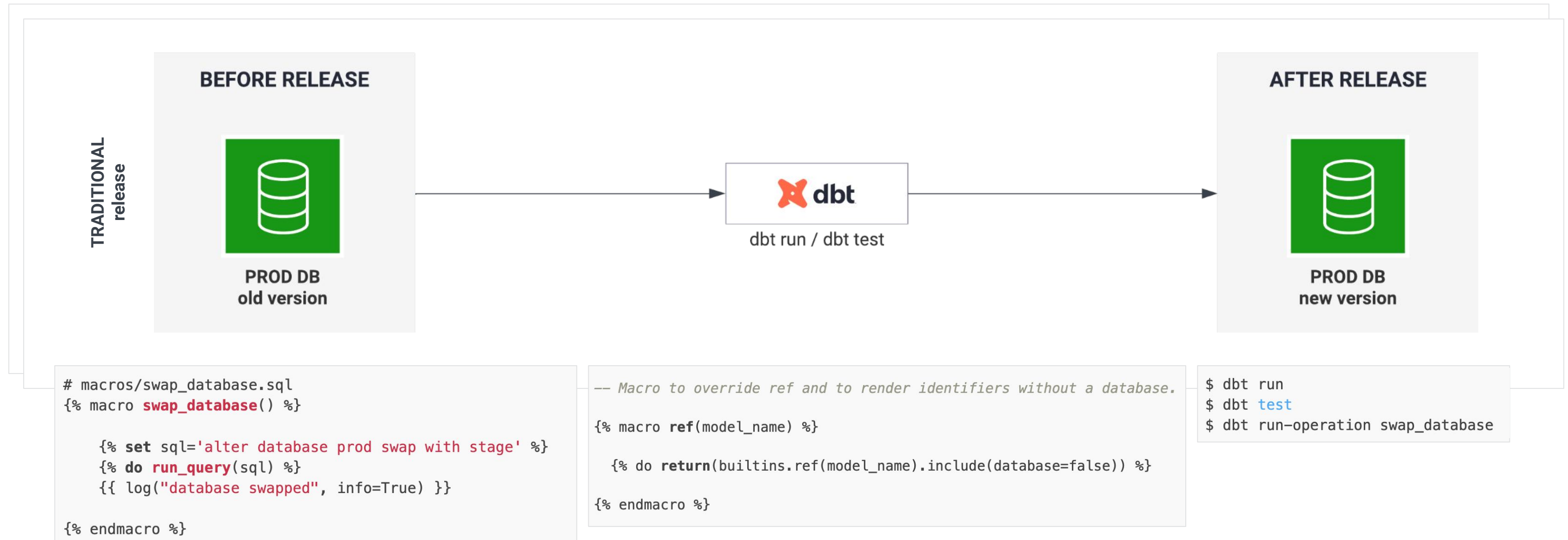
# WORKFLOWS

LET'S MAKE THEM GOOD

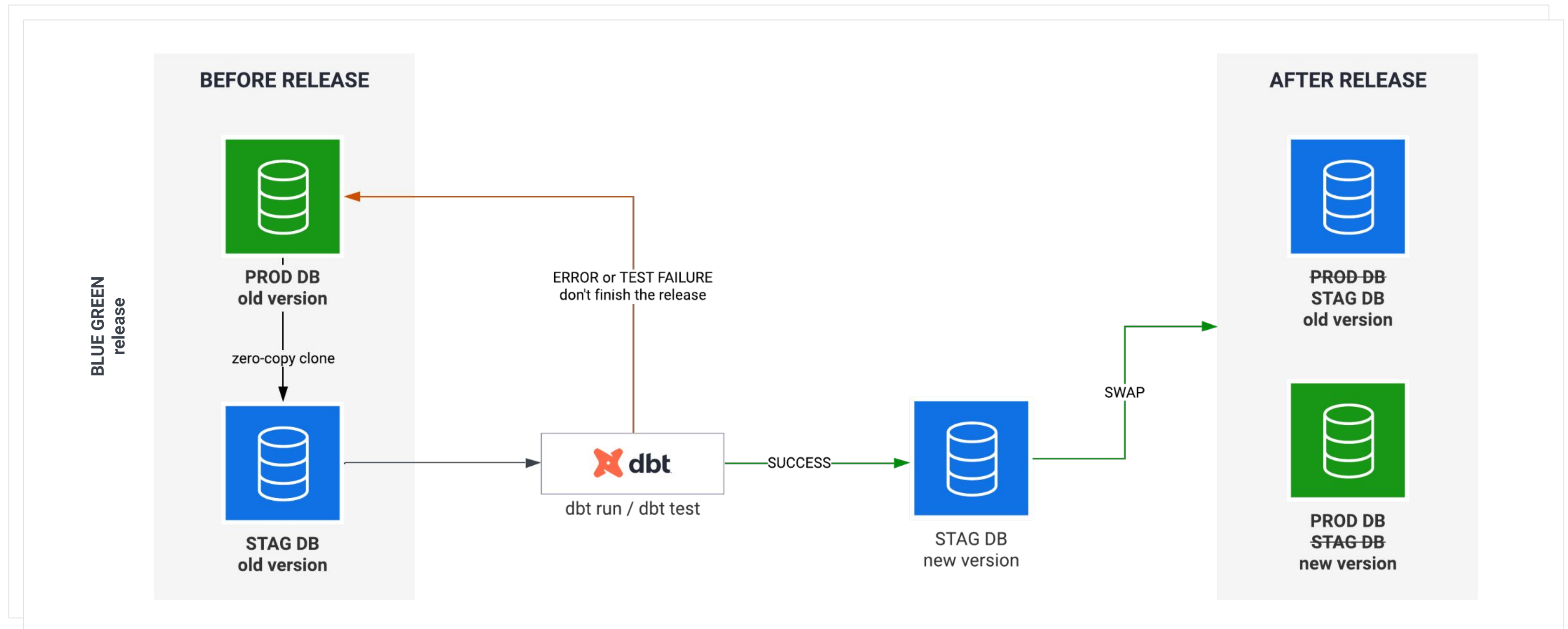
# LET'S GEEK OUT ABOUT DATA OPS



# DO SAFE RELEASES – PEOPLE RELY ON “OUR” DATA



# DO SAFE RELEASES – PEOPLE RELY ON “OUR” DATA





# SUPPORTS THIS WORKFLOW

- Production**  
dbt version: 1.0 | master
- Production (BG)**  
dbt version: 1.0 | DPP-1995-release-24
- UAT**  
dbt version: 1.0 | UAT
- UAT (BG)**  
dbt version: 1.0 | feature/DPP-1971-Handling-DQ-

- PROD daily ETL**  
Scheduled
- PROD generate dbt docs**
- PROD intraday NRT New Store**  
Scheduled
- PROD intraday Sales and Stock**  
Scheduled
- PROD intraday Torque**  
Scheduled
- PROD monthly job**  
Scheduled

- PROD backfill (Blue)**
- PROD clone Green to Blue (Blue)**
- PROD daily ETL pre-release (Blue)**
- PROD intraday NRT New Store pre-release (Blue)**
- PROD intraday Sales and Stock pre-release (Blue)**
- PROD intraday Torque pre-release (Blue)**
- PROD on-demand (Blue)**
- PROD release using swap (Blue)**

3

**WHERE ARE WE NOW?**

## WHERE ARE WE NOW?

- 11 source systems
- 23 dimensions
- 22 facts
- 12 reverse ETL objects

```
dbt list --resource-type model | wc -l  
1572
```

```
dbt list --resource-type test | wc -l  
1298
```





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# Q&A THANK YOU!

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