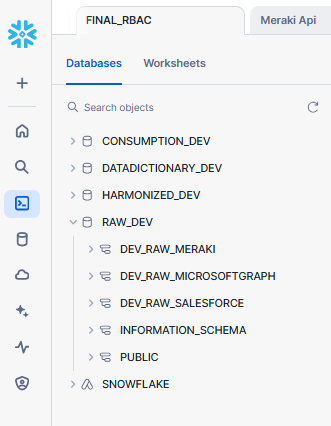
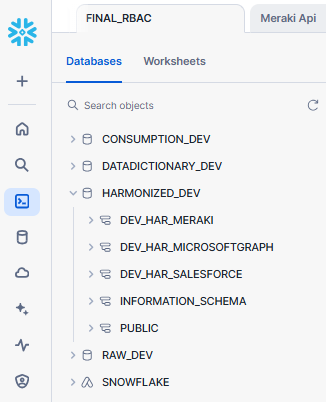
**RBAC TESTING DOCUMENT**

## **DATABASE &SCHEMA CREATION**

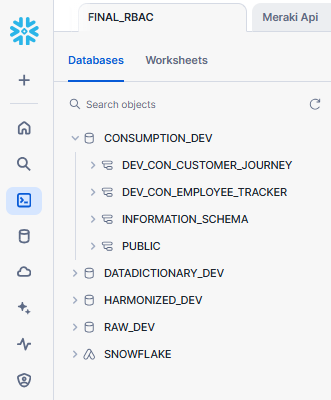
In the Snowflake Dev environment, created a database named RAW\_DEV and created 3 schemas named DEV\_RAW\_MERAKI,DEV\_RAW\_MICROSOFTGRAPH,DEV\_RAW\_SALESFORCE.



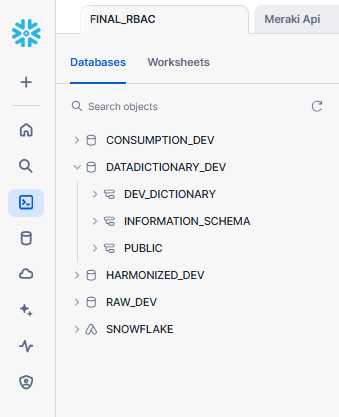
In the Snowflake Dev environment, created a database named HARMONIZED\_DEV and created 3 schemas named DEV\_HAR\_MERAKI,DEV\_HAR\_MICROSOFTGRAPH,DEV\_HAR\_SALESFORCE.



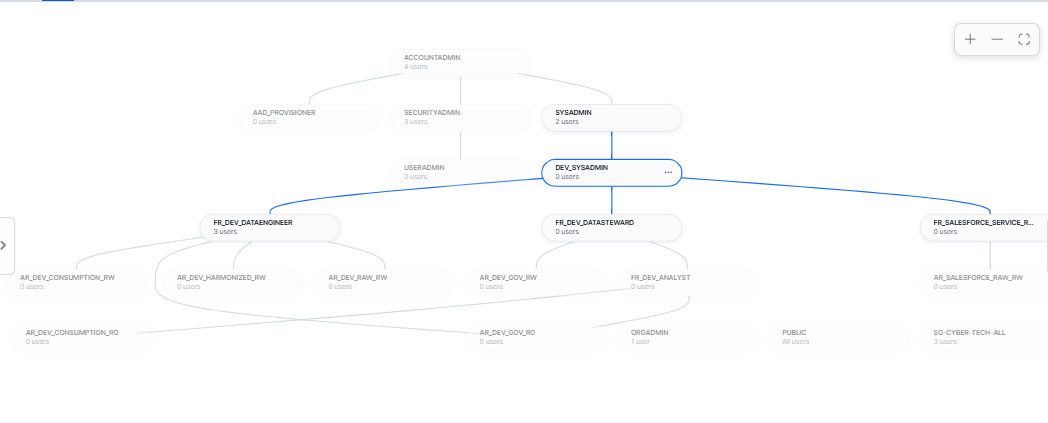
In the Snowflake Dev environment, created a database named CONSUMPTION\_DEV and created 2 schemas named DEV\_CON\_EMPLOYEE\_TRACKER,DEV\_CON\_CUSTOMER\_JOURNEY



In the Snowflake Dev environment, created a database named DATADICTIONARY\_DEV and created a schema named DEV\_DICTIONARY.



## **ROLE HEIRARCHY**

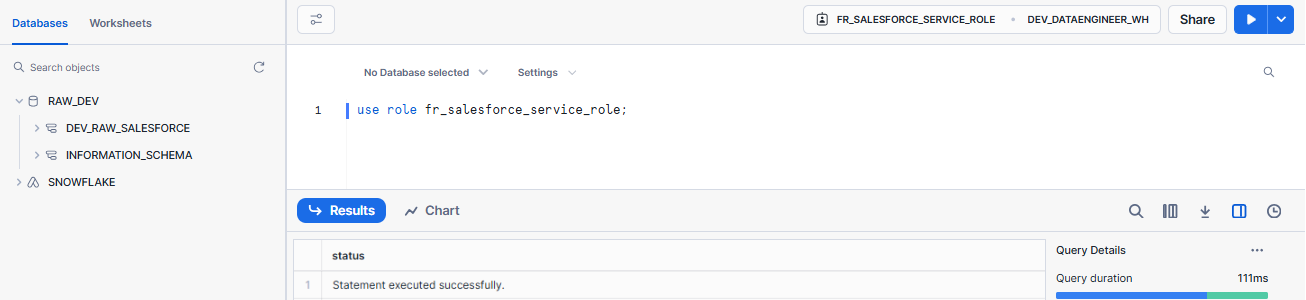


## 

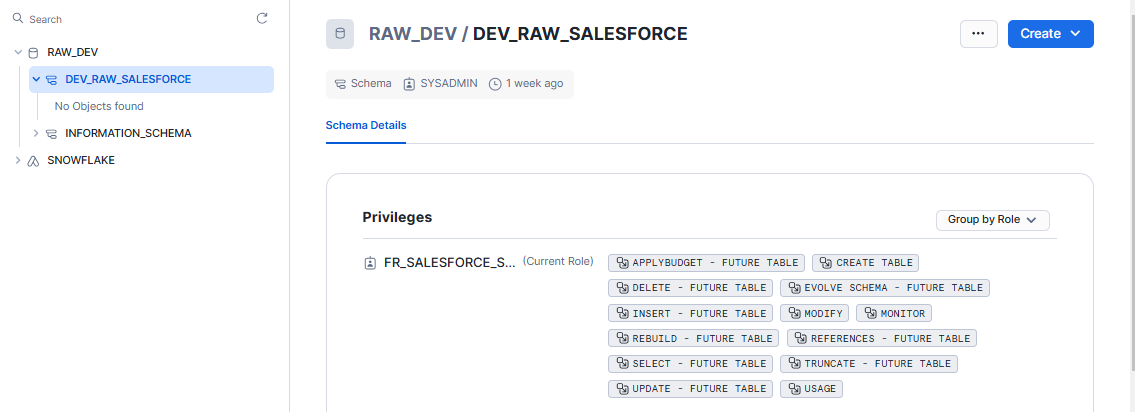
## **OBJECT ACCESS PRIVILEGE TO ROLES**

## **1. FR\_SALESFORCE\_SERVICE\_ROLE :-**

* In the figure below it can be clearly seen that the FR\_SALEFORCE\_SERVICE\_ROLE does not have access to the HARMONIZED\_DEV, CONSUMPTION\_DEV ,DATADICTIONARY\_DEV database but it has access to the RAW\_DEV database and it can access only DEV\_RAW\_SALESFORCE to load data from Salesforce using Sync out connector.

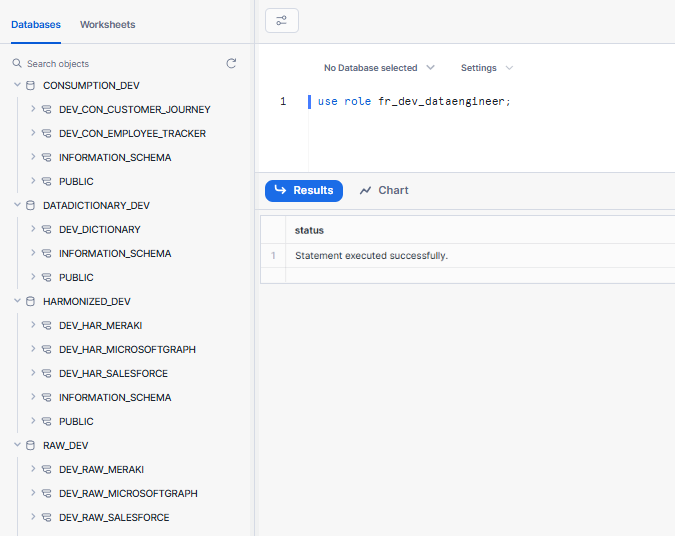


**FR\_SALEFORCE\_SERVICE\_ROLE** has **create table, Select, Insert, Update, Delete, Truncate** privilege on tables and **usage** privilegeson schema DEV\_RAW\_SALESFORCE as shown in privileges section in below screenshot.

****

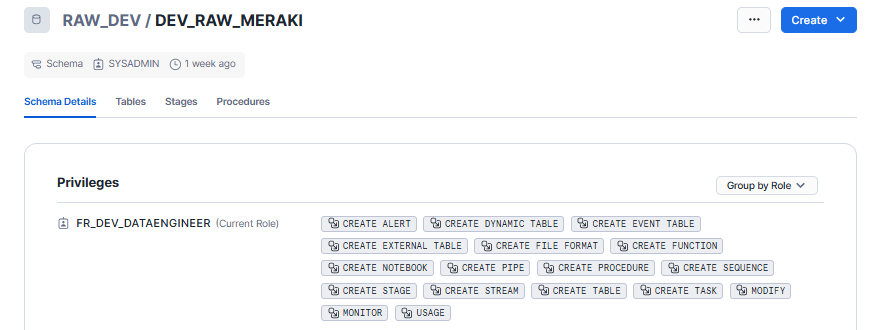
## 2. **FR\_DEV\_DATAENGINEER** :-

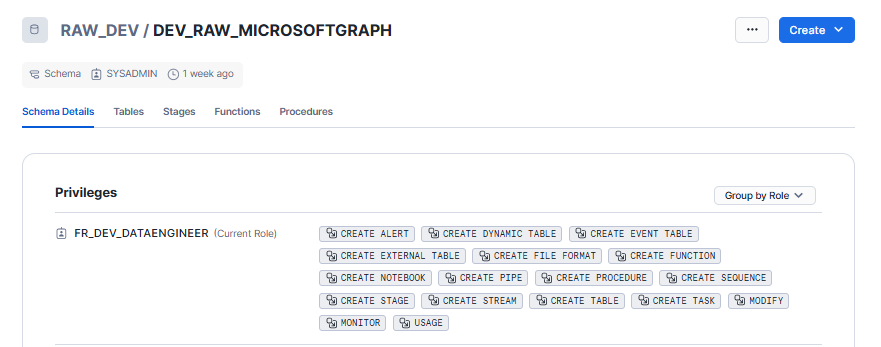
In the figure below it can be clearly seen that the FR\_DEV\_DATAENGINEER have access to the **RAW\_DEV,HARMONIZED\_DEV, CONSUMPTION\_DEV ,DATADICTIONARY\_DEV** database and can able to access **all schemas** in respective databases.

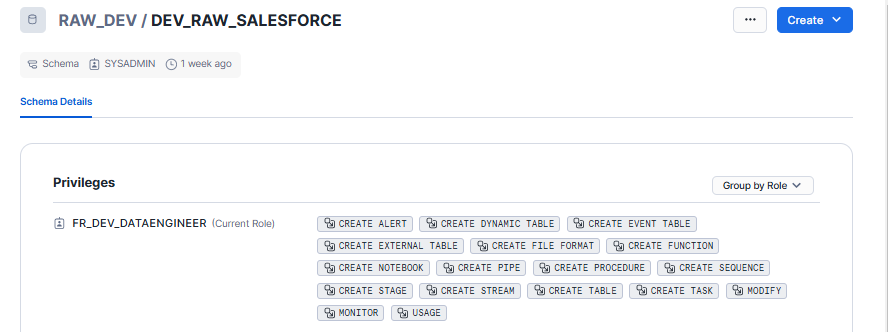


**RAW\_DEV DATABASE**

**FR\_DEV\_DATAENGINEER** has CREATE ALERT,CREATE DYNAMIC TABLE,CREATE EVENT TABLE,CREATE EXTERNAL TABLE,CREATE FILE FORMAT,CREATE FUNCTION,CREATE NOTEBOOK,CREATE PIPE,CREATE PROCEDURE,CREATE SEQUENCE,CREATE STAGE,CREATE STREAM,CREATE TABLE,CREATE TASK,MODIFY,MONITOR,USAGE privileges on **all schemas** in **RAW\_DEV** database as shown in privileges section in below screenshot.

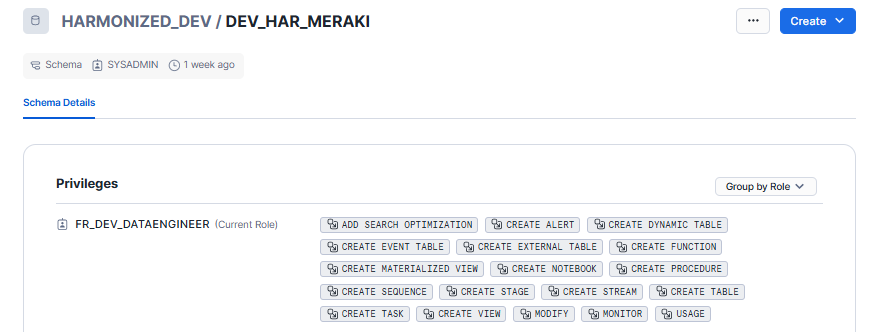


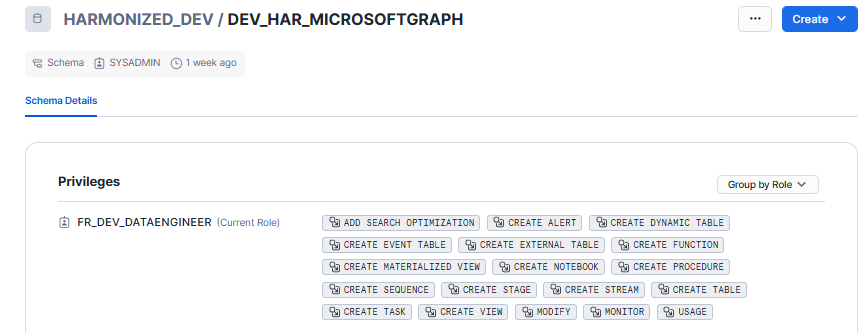


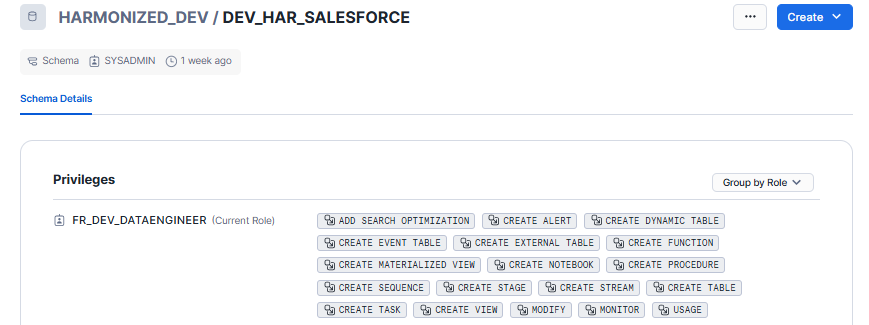


**HARMONIZED\_DEV**

**FR\_DEV\_DATAENGINEER** has ADD SEARCH OPTIMIZATION,CREATE ALERT,CREATE DYNAMIC TABLE,CREATE EVENT TABLE,CREATE EXTERNAL TABLE,CREATE FUNCTION,CREATE MATERIALIZED VIEW,CREATE NOTEBOOK,CREATE PROCEDURE,CREATE SEQUENCE,CREATE STAGE,CREATE STREAM,CREATE TABLE,CREATE TASK,CREATE VIEW,MODIFY,MONITOR,USAGE privileges on **all schemas** in **HARMONIZED\_DEV** database as shown in privileges section in below screenshot.







**CONSUMPTION\_DEV**

**FR\_DEV\_DATAENGINEER** has CREATE CORTEX SEARCH SERVICE,CREATE MATERIALIZED VIEW,CREATE TABLE,CREATE VIEW,MODIFY,MONITOR,USAGE privileges on **all schemas** in **CONSUMPTION\_DEV** database as shown in privileges section in below screenshot.

****

****

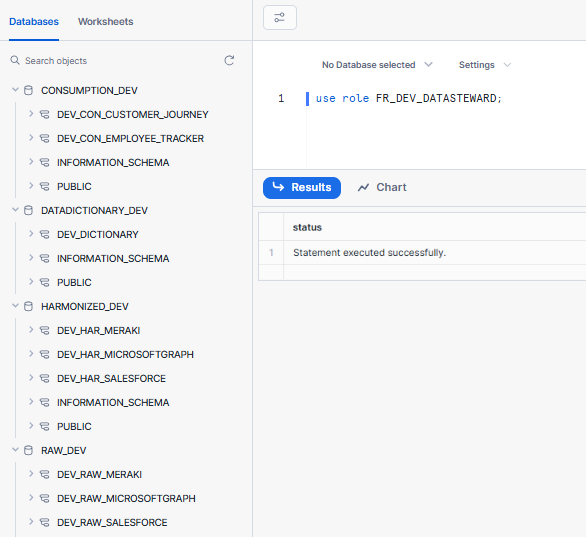
**DATADICTIONARY\_DEV**

**FR\_DEV\_DATAENGINEER** has Usage privilege on **all schemas** in **DATADICTIONARY\_DEV** database as shown in privileges section in below screenshot.



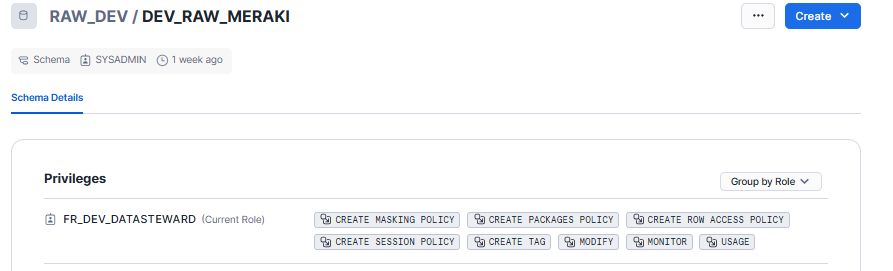
## 3. **FR\_DEV\_DATASTEWARD** :-

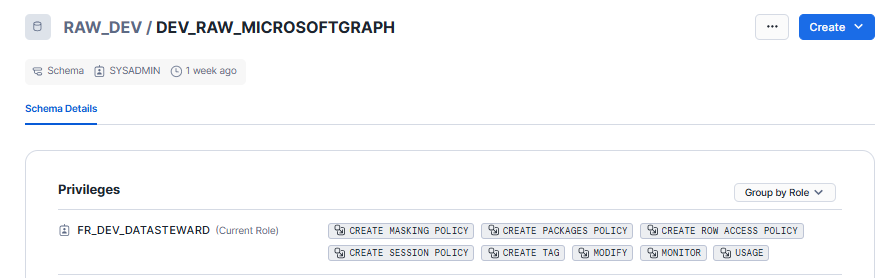
In the figure below it can be clearly seen that the FR\_DEV\_DATASTEWARD have access to the **RAW\_DEV,HARMONIZED\_DEV, CONSUMPTION\_DEV ,DATADICTIONARY\_DEV** database and can able to access **all schemas** in respective databases.

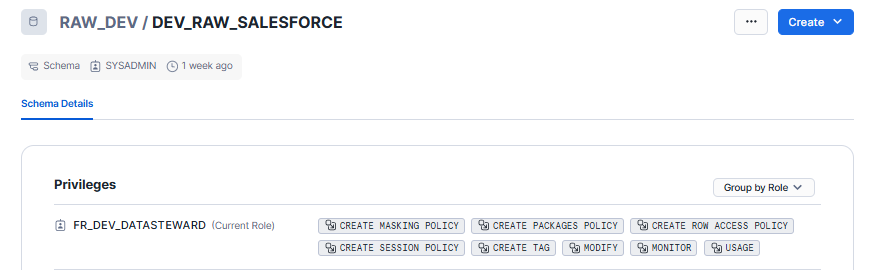


**RAW\_DEV DATABASE**

**FR\_DEV\_DATASTEWARD** has CREATE MASKING POLICY,CREATE PACKAGES POLICY,CREATE ROW ACCESS POLICY,CREATE SESSION POLICY,CREATE TAG,MODIFY,MONITOR,USAGE privileges on **all schemas** in **RAW\_DEV** database as shown in privileges section in below screenshot.

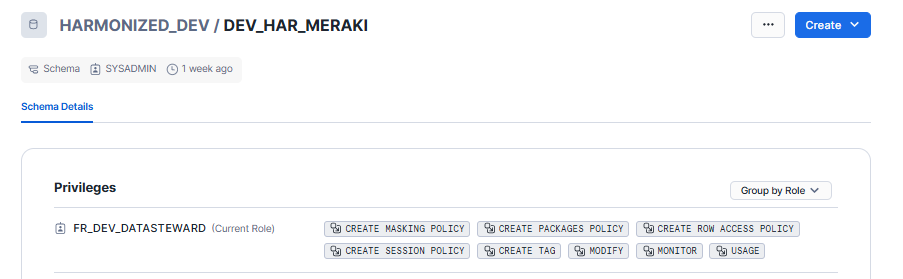


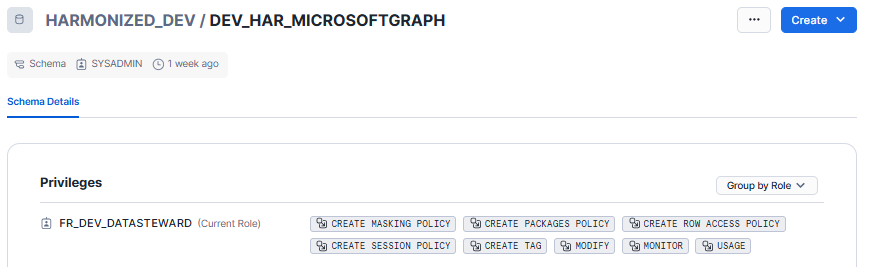


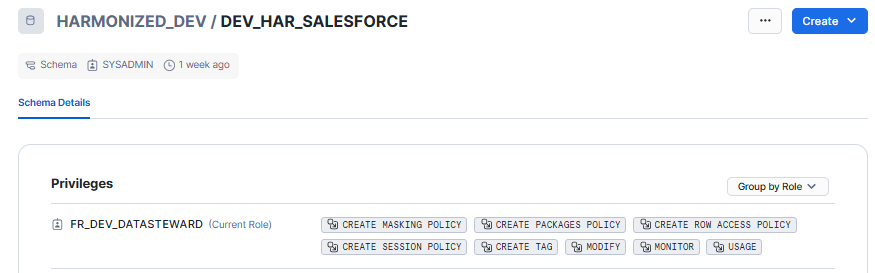


**HARMONIZED\_DEV**

**FR\_DEV\_DATASTEWARD** has CREATE MASKING POLICY,CREATE PACKAGES POLICY,CREATE ROW ACCESS POLICY,CREATE SESSION POLICY,CREATE TAG,MODIFY,MONITOR,USAGE privileges on **all schemas** in HARMONIZED\_DEV database as shown in privileges section in below screenshot.

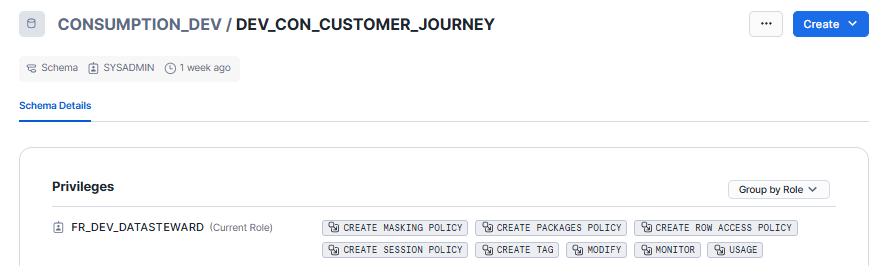
****

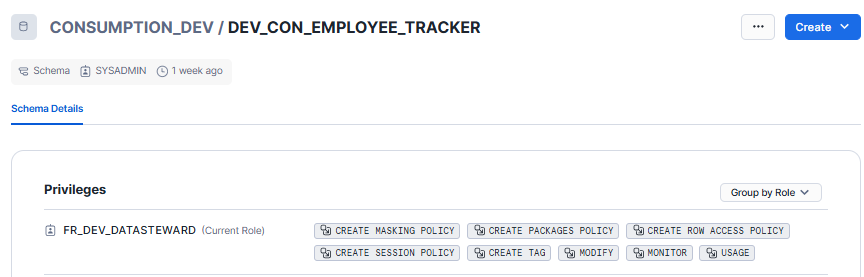
****

****

**CONSUMPTION\_DEV**

**FR\_DEV\_DATASTEWARD** has CREATE MASKING POLICY,CREATE PACKAGES POLICY,CREATE ROW ACCESS POLICY,CREATE SESSION POLICY,CREATE TAG,MODIFY,MONITOR,USAGE privileges on **all schemas** in CONSUMPTION\_DEV database as shown in privileges section in below screenshot.





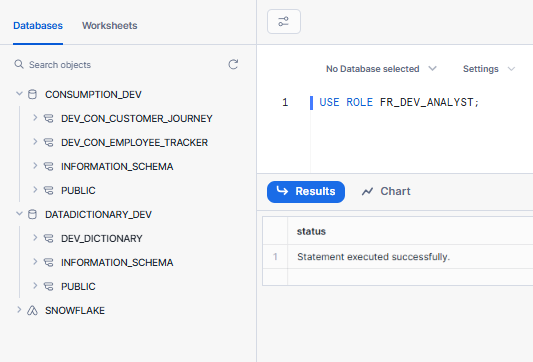
**DATADICTIONARY\_DEV**

**FR\_DEV\_DATASTEWARD** has CREATE TABLE,MODIFY,MONITOR,USAGE privileges on **all schemas** in CONSUMPTION\_DEV database as shown in the privileges section in below screenshot.

****

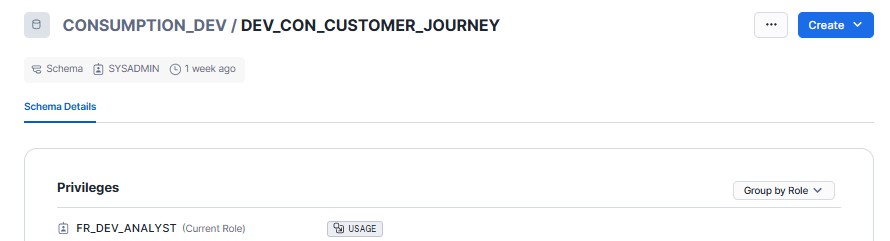
## 4. **FR\_DEV\_DATA\_ANALYST** :-

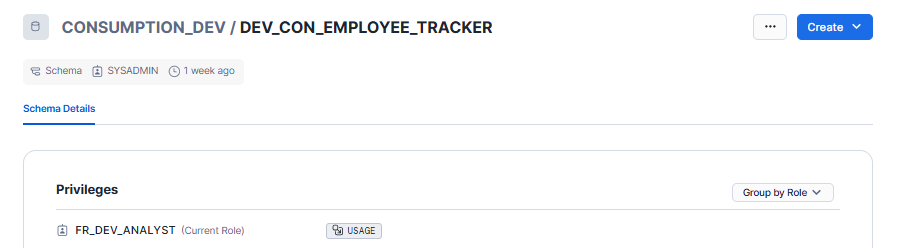
In the figure below it can be clearly seen that the FR\_DEV\_DATA\_ANALYST have access to the **CONSUMPTION\_DEV ,DATADICTIONARY\_DEV** database and can able to access **all schemas** in respective databases and not able to access RAW\_DEV, HARMONIZED\_DEV databases as expected.



**CONSUMPTION\_DEV DATABASE**

**FR\_DEV\_DATA\_ANALYST** has USAGE privileges on **all schemas** in the CONSUMPTION\_DEVdatabase as shown in the privileges section in the screenshot below.





**FR\_DEV\_DATA\_ANALYST** also have SELECT - FUTURE MATERIALIZED VIEW,SELECT - FUTURE TABLE,SELECT - FUTURE VIEW privileges in CONSUMPTION\_DEV DB but it can’t insert,update,delete tables in CONSUMPTION\_DEV.