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# **CBA NPW-DBT Quick Start Guide**

## **🚀 Immediate Implementation Steps**

### **1. Prerequisites (5 minutes)**

-- Run in Snowflake to create required infrastructure  
CREATE DATABASE IF NOT EXISTS GDW1\_IBRG;  
CREATE DATABASE IF NOT EXISTS GDW1\_STG;   
CREATE DATABASE IF NOT EXISTS GDW1;  
CREATE SCHEMA IF NOT EXISTS GDW1.cse4\_ctl;  
CREATE SCHEMA IF NOT EXISTS GDW1\_STG.files;  
CREATE SCHEMA IF NOT EXISTS GDW1\_STG.datasets;  
CREATE WAREHOUSE IF NOT EXISTS DBT WITH WAREHOUSE\_SIZE = 'MEDIUM';

### **2. Import to Snowflake dbt (10 minutes)**

1. **Snowflake Console** → Projects → dbt → Create Project
2. **Import from Git:** https://github.com/sfc-gh-mhindi/REPO\_CBA.git
3. **Subdirectory:** GDW1/NPW-DBT
4. **Update connection** to your Snowflake account

### **3. Essential Configuration Updates**

Update these variables in dbt\_project.yml:

vars:  
 files\_schema: files  
 datasets\_schema: datasets  
 mart\_db: GDW1\_IBRG  
 intermediate\_db: GDW1\_STG   
 stg\_ctl\_db: GDW1  
 etl\_process\_dt: 20240101 # ← Update to current date  
 run\_stream: CSE\_COM\_BUS\_APP\_PROD  
 app\_release: CSEL4

### **4. Test Run (Sequential Execution)**

# Start with foundation  
dbt seed  
dbt run --select models/cse\_dataload/02processkey  
  
# If successful, continue with full pipeline  
dbt run  
dbt test

## **📊 Project Structure Overview**

NPW-DBT/  
├── NPW DBT - My Changes/ # ← Your customizations & documentation  
│ ├── README\_NPW\_DBT\_Implementation\_Guide.md # ← Full guide  
│ └── QUICK\_START\_GUIDE.md # ← This file  
├── NPW DBT Project/ # ← Your project variations  
├── models/ # ← 80+ active dbt models  
│ ├── cse\_dataload/ # ← Main ETL pipeline (8 phases)  
│ └── appt\_pdct/ # ← Application product processing  
├── translated/ # ← Legacy files (NOT used by dbt)  
└── dbt\_project.yml # ← Main configuration

## **⚡ Key Execution Phases**

| Phase | Directory | Purpose | Key Models |
| --- | --- | --- | --- |
| 1 | 02processkey | Process management | proskeyhash\_\_loadgdwproskeyseq |
| 2 | 04MappingLookupSets | Reference data | ldmap\_cse\_pack\_pdct\_pllkp |
| 3 | 08extraction | Data ingestion | srcplappseq\_\_extpl\_app |
| 4 | 12MappingTransformation | Business logic | tmpapptpdctds\_\_xfmpl\_appfrmext |
| 5 | 14loadtotemp | Staging | Temporary processing |
| 6 | 16transformdelta | Change tracking | dltappt\_deptfrmtmp\_appt\_dept |
| 7 | 18loadtogdw | Final loading | ldapptpdctupd |
| 8 | 24processmetadata | Monitoring | tgt\_step\_stus\_tbl\_\_\* |

## **🔧 Common Issues & Quick Fixes**

### **Issue 1: Source table not found**

-- Check if source exists  
SHOW TABLES IN DATABASE.SCHEMA;  
-- Update model source reference if needed

### **Issue 2: Variable not found**

# Verify all variables are defined in dbt\_project.yml  
# Look for {{ cvar('variable\_name') }} in error message

### **Issue 3: Permission denied**

-- Grant necessary permissions  
GRANT USAGE ON DATABASE GDW1\_IBRG TO ROLE your\_role;  
GRANT ALL ON SCHEMA GDW1\_STG.files TO ROLE your\_role;

### **Issue 4: Post-hook failure**

# Post-hooks insert data into target tables  
# Ensure target tables exist and you have INSERT permissions

## **📈 Success Indicators**

✅ **Seeds loaded successfully** - Configuration data ready  
✅ **Process keys generated** - Core infrastructure working  
✅ **No rejection records** - Data quality passing  
✅ **Metadata tables populated** - Process tracking active  
✅ **Target tables loaded** - Pipeline delivering data

## **📞 Getting Help**

1. **Check the full guide:** README\_NPW\_DBT\_Implementation\_Guide.md
2. **Review model dependencies:** Use dbt docs generate && dbt docs serve
3. **Monitor execution:** Check GDW1.cse4\_ctl.STEP\_OCCR table
4. **Debug mode:** Add --debug flag to dbt commands

**Next Steps:** Once basic execution works, review the full implementation guide for production deployment, performance optimization, and monitoring setup.