



# Manage BusSys DBT Package

## Overview

BusSys, in an effort to streamline its data operations, has initiated the creation of a centralized package. This package consolidates commonly used macros and dbt (data build tool) packages that are utilized across various dbt projects. The goal of this initiative is to enhance efficiency, maintain consistency, and simplify the process of managing and updating these tools.

## Repository Details

- **Host Platform:** GitHub
- **Access:** The package is hosted on a private repository on GitHub, allowing for version control and collaborative development.
- **Maintenance:** The repository is actively maintained using Visual Studio Code (VSCode).

## Contents of the Package

1. **Common Macros:** A collection of frequently used macros that have been standardized for use across multiple projects. These macros are designed to simplify complex SQL operations, ensure coding consistency, and reduce the redundancy of code.
2. **dbt Packages:** Integrated dbt packages that are essential for various data transformation and modeling tasks in BusSys projects. These packages are tailored to meet the specific needs of BusSys's data infrastructure and workflows.

## Usage Guidelines

- **Installation:** In DBT, go to `develop` and run `dbt deps` when a new revision is available. New revision is communicated via our slack channel.
- **Update and Maintenance:**

*Pre Requisite:* VSCode + Git CLI + GH CLI (If GH CLI not installed, create the PR using GitHub UI)

- Clone dbt bussys package repo ( [https://github.com/Dynatrace-BusSys-BI/bs\\_dbt\\_package.git](https://github.com/Dynatrace-BusSys-BI/bs_dbt_package.git) `Connect your Github account` )
- Run below command in VS Code Terminal

```
1 git pull origin main
2 git checkout -b feature/<dev initial>/<my message>
3 -- Make changes to code (don't forget to update CHANGELOG.md & README.md)
4 git add .
5 git commit -m "<my message>"
6 git tag -a v<next release>
7 git push origin feature/<dev initial>/<my message>
8 git push origin v<next release>
9 -- If gh cli is not installed, use GitHub UI
10 gh pr create --base main --head feature/<dev initial>/<my message> --title "v<next release>" --body "<my b
11 -- after PF reviewed, approved and code merged to main
12 git checkout main
13 git pull -all
```

- Communicate new revision

## Benefits

- **Consistency and Standardization:** Centralizing these tools promotes uniformity in coding practices and data processes across different projects.
- **Efficiency:** Reduces the time and effort required to start new projects and maintain existing ones by providing ready-to-use, tested components.
- **Collaboration:** Facilitates better collaboration among team members by using a common set of tools and practices.

## Contact and Support

- **Maintainers:** @Indranil Konar @Thierry Krumeich
- **Support:**  
Reach out to maintainers for any questions.  
To add, update or drop common macros, raise a JIRA ticket.