

**dba.SetPassword**

**Purpose:**

The dba.SetPassword function is a secure way to change a PostgreSQL user’s password, with built-in auditing and safety features. It is designed for use in environments where tracking changes and avoiding accidental modifications is critical.

**🔧 What It Does**

- Changes the password for a non-superuser PostgreSQL role.  
- Logs the change to an audit table.  
- Performs input validation to avoid common security issues or user errors.

**🔐 Security and Validation**

This function includes safeguards such as:  
- Disallows NULL or blank values for username/password.  
- Requires password to be at least 12 characters long.  
- Blocks changes to the "postgres" superuser.  
- Only changes password if the user exists.

**📥 Usage Syntax**

***SELECT dba.SetPassword('target\_username', 'new\_secure\_password');***

***✅ Example:  
SELECT dba.SetPassword('employee123', 'MyN3wSecureP@ssword!');***

**❓ Troubleshooting**

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| Error Message | Meaning |
| Username cannot be null or empty | You didn’t pass a valid username. |
| Password must be at least 12 characters long | Password is too short. |
| Changing password for superuser "postgres" is not allowed | Security policy restriction. |
| User "xyz" does not exist | PostgreSQL role not found. |