# deploy.DropSchemaWithCleanup – Technical Documentation

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## Summary

Safely removes a schema from the database. Checks existence, builds a dynamic SQL DROP SCHEMA command, and executes it with optional CASCADE. Dry-run logging is supported for audit purposes.

## Function Logic

1. Checks if schema exists in `information\_schema.schemata`  
2. If not found:  
 - Logs status `NOT\_FOUND`  
 - Returns 'schema does not exist' without failure  
3. If found:  
 - Builds SQL: `DROP SCHEMA %I RESTRICT|CASCADE`  
 - Executes only if `p\_execute\_flag = TRUE`  
 - Logs to `dba.object\_log\_history` with action type DROP\_SCHEMA

## Dry-Run Support

- If `p\_execute\_flag = FALSE`, function logs action but does not execute DROP SCHEMA  
- Useful in CI/CD and deployment planning workflows

## CASCADE Behavior

- If `p\_cascade = TRUE`, all tables, views, functions, and objects in the schema are dropped  
- Use with caution in production environments

## Limitations

- No dependency validation before CASCADE  
- Does not reassign owned objects before drop  
- Requires full schema ownership or superuser privileges

## References

- https://www.postgresql.org/docs/current/sql-dropschema.html  
- https://www.postgresql.org/docs/current/catalog-pg-namespace.html  
- https://www.postgresql.org/docs/current/information-schema.html

## TL;DR

Drop a schema with RESTRICT or CASCADE. Logs outcome and supports dry-run. Skips safely if schema is missing.