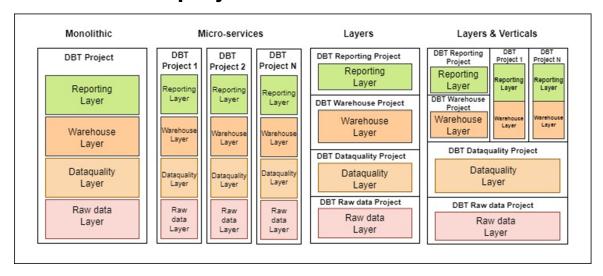
All about DBT projects



Types of DBT projects Architectures

- Monolithic: A single dbt project for your entire platform. It will clean your data, build fact and dimension and materialize any table that might be needed to support your reporting and analytics.
- Micro-services: Multiple small projects, each with a single purpose. Projects based on Subject areas within Business verticals catering specific
 needs of the business.
- Layers: Your data platform will be normally structured in logical layers. Like Raw-data/Landing layer, Data-quality/Staging layer, Warehouse /SDDS layer, Reporting/Publish layer.
- Layers and verticals: This is a Hybrid approach. It's like Layers approach but after Data-quality one DBT project is built with all facts and dimensions relevant for the entire organisation and some vertical-specific projects are created to serve specific areas of the organization.

DBT projects architecture Merits & Demerits

Approach	Pros	Cons
	Comprehensive data lineage and DBT documentation.	
	Macros defined in one place to help standardise data	Large projects easily become unmanageable, especially
	transformations.	when multiple engineers are working concurrently.
	Easier to enforce standards with everything in a single	Heavy to run due to the number of models and tests.
Monolithic	place.	
Microservices	Lightweight projects with a clear purpose. Easier to work on a single small piece than on a big monolith. Harder to clash with other engineers while adding a feature.	DBT Documentation scattered across multiple projects.
		Incomplete data lineage.
		Need of a templating tool to enforce standards and ensure
		macros are not built twice in different projects. Potentially
	lea ture.	more infrastructure to build.
	Clear data lineage of each layer.	
	Every project has a well-defined purpose. Easier to ensure	Projects are still of considerable size and might lead to
	Macros are defined once.	confusion if not properly organised.
Layers	Easier to enforce standards than micro-services.	
		Sometimes there is a fine line between what is specific for a
	Clear data lineage of each layer.	single business unit and what it should be shared with the
	Every project has a well-defined purpose.	entire company.
	Easier to ensure Macros defined once.	The number of projects is tied to how many verticals you
	Allows data engineers embedded in other teams to	have to serve.
	actively contribute to verticals specific projects.	Need of a templating tool to enforce standards and ensure
Layers and verticals		all the DBT projects are aligned.