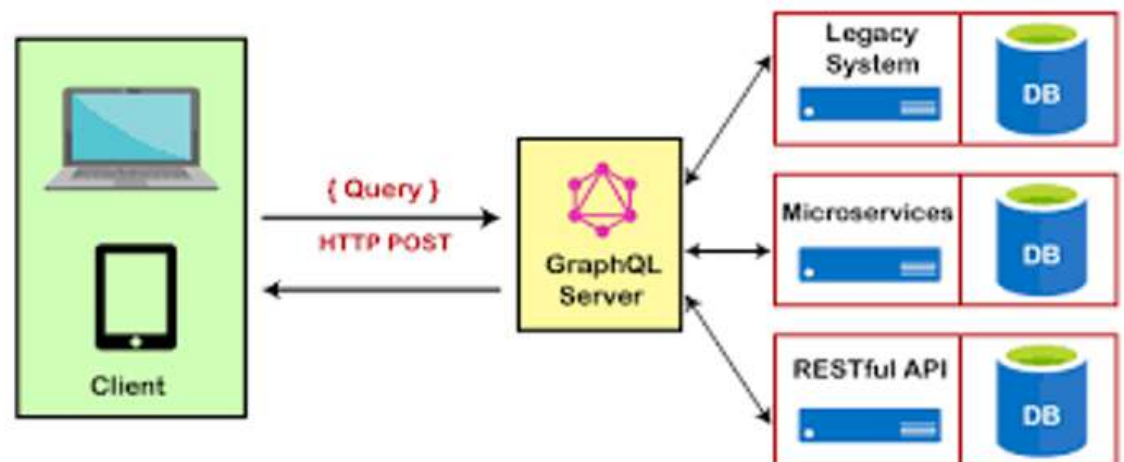
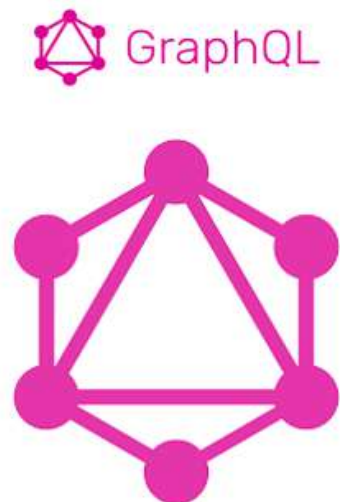
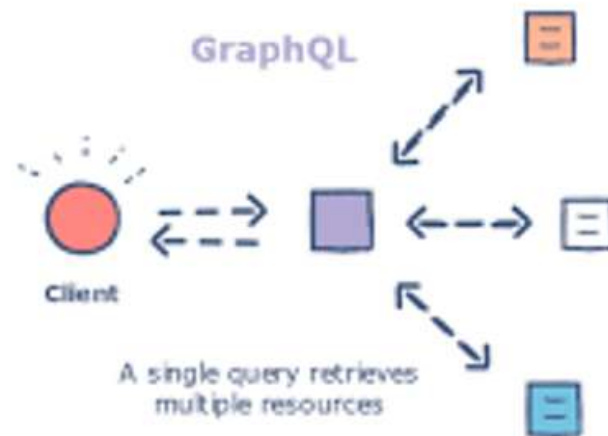


# WHAT IS GraphQL ?





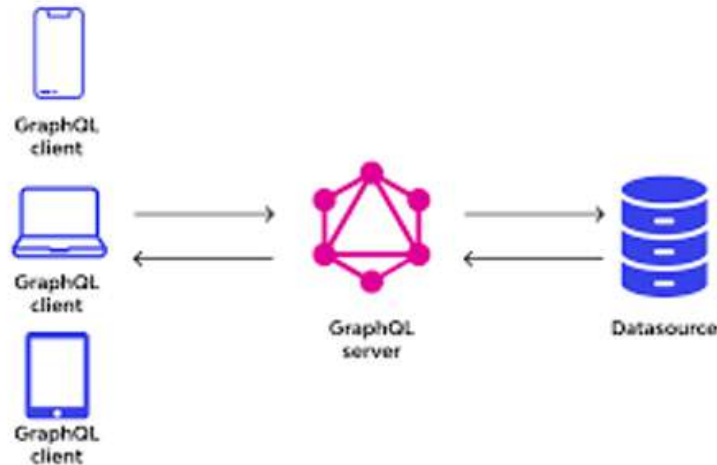
# GraphQL:

A query language for your API

Query language and server-side runtime for API's that prioritizes giving clients exactly the data they request and no more.

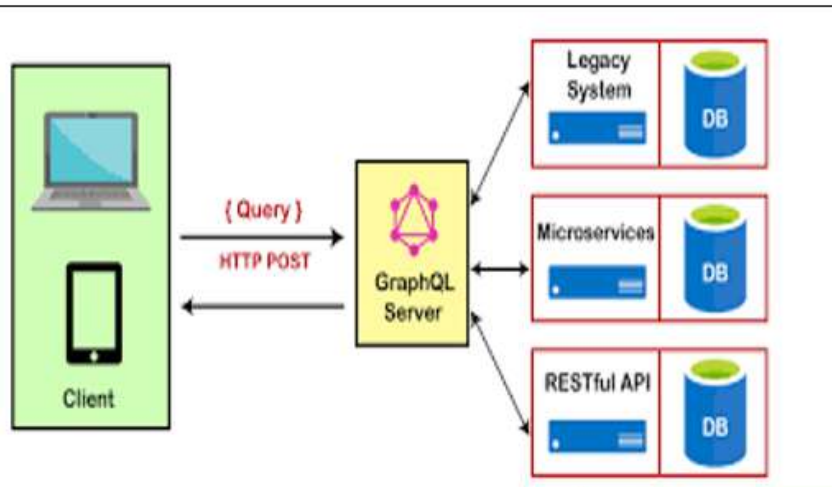
Let's developers construct requests that pull data from multiple data sources in a single API call

Developers can build APIs with whatever methods they prefer, and the GraphQL specification will ensure they function in predictable ways to clients





# GraphQL



**In a nutshell, GraphQL is a syntax that describes how to ask for data, and is generally used to load data from a server to a client.**

**GraphQL has three main characteristics:**

**It lets the client specify exactly what data it needs.**

**It makes it easier to aggregate data from multiple sources.**

**It uses a type system to describe data.**


# ADVANTAGES OF GraphQL



**Good fit for complex systems and microservices**



**Fetching data with a single API call**




**No over- and under-fetching problems : Fetching the exact data in a single request**




**Tailoring requests to your needs**



**Validation and type checking out-of-the-box : There's no need to validate the data format, as GraphQL does it for you**



**Autogenerating API documentation. GraphQL keeps documentation in sync with API changes. As the GraphQL API is tightly coupled with code, once a field, type or query changes, so do the docs**



**Code-sharing. In GraphQL fields used in multiple queries can be shared at a higher component level for reuse.**

Is GraphQL is database ?



**No. GraphQL is often confused with being a database technology. This is a misconception, GraphQL is a query language for APIs - not databases.**



# Companies reportedly using GraphQL



And many more .....