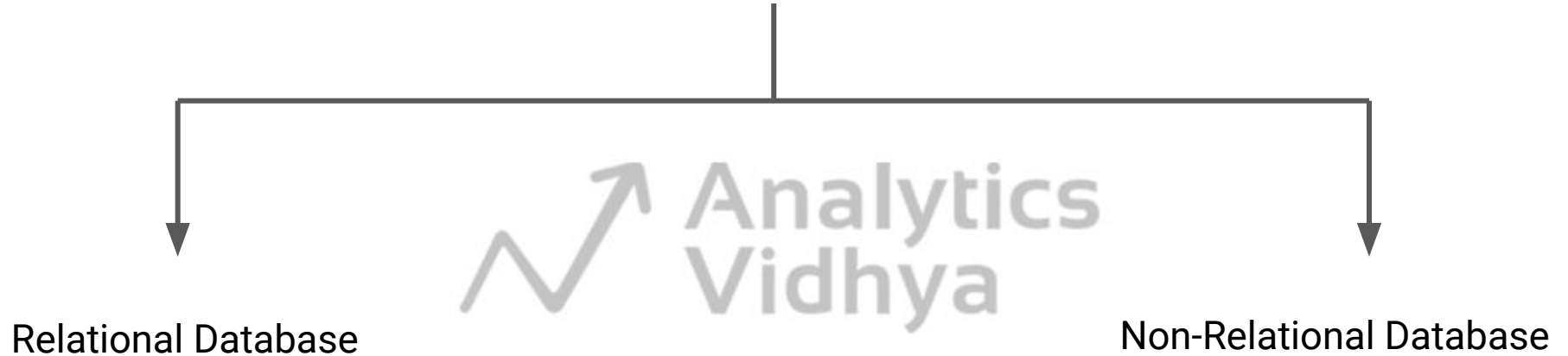


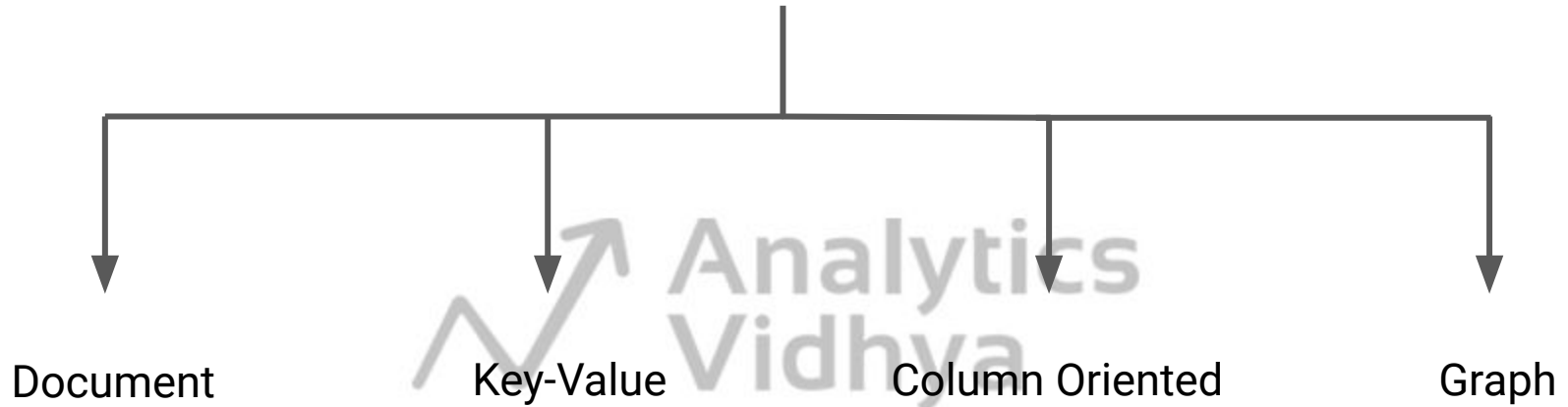


Cosmo DB

Types of Databases



Types of NoSQL Databases



Azure Cosmos DB



Azure Cosmos DB

Read/Write requests go to nearest region.

Supports multiple cloud database models.



Azure Cosmos DB

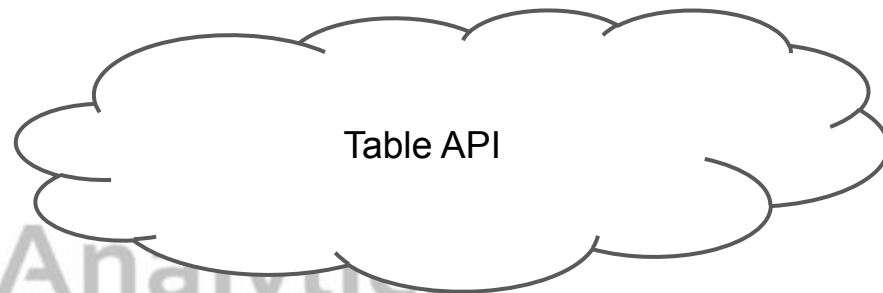
Table API

Cassandra API

Gremlin API

MongoDB API

SQL API



Azure Cosmos DB

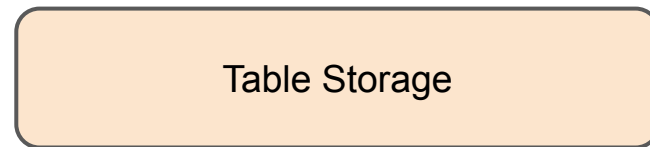


Table API

Cosmos DB Table API is built on Table Storage



Guaranteed High Availability

Single Digit Millisecond Latency

Automatic Secondary Indexing

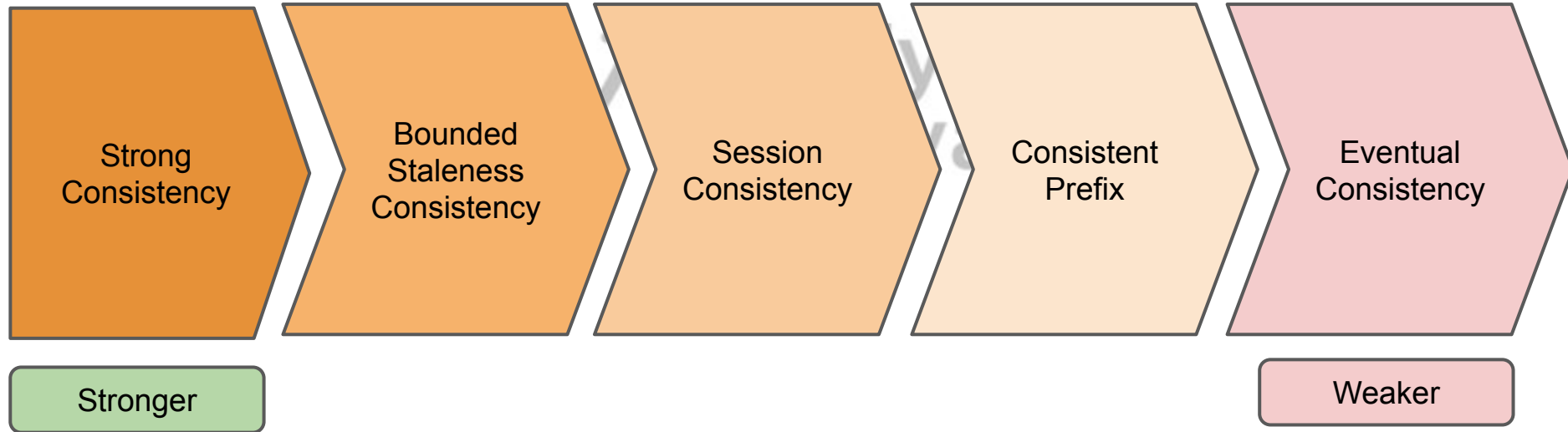
Global Distribution

Consistency Problem of NoSQL Databases

- How to keep all of the locations in sync?
- You need to have the same data at all different locations.



Consistency Levels



Consistency Levels

Stronger
Consistency

It guarantees that a read operation will return the latest version of the item.

Your database should be only in one region.

Consistency Levels

Bounded
Staleness
Consistency

Low write latencies but require total global order guarantee.

Same cost as “**strong consistency**” but allows you to store data in multiple regions.

It is the second most famous consistency level among the cosmos db customers.

Consistency Levels

Session
Consistency

Guarantees consistency for each client session.

Lowest latency reads and writes.

Most popular consistency level chosen.

Consistency Levels

Consistent
Prefix

Guarantees that read operations will never see out of order writes.

Reads can return older values, but never out of order.

Consistency Levels

Eventual
Consistency

A request can return a older value.

Lowest Latency and the worst consistency.

Count of Retweets, likes and non-threaded comments.

Back Ups

Snapshots every 4 hrs

Snapshots of deleted databases will be retained for 30 days.

Additional backups using the Data Migration Tool.





Demo !!