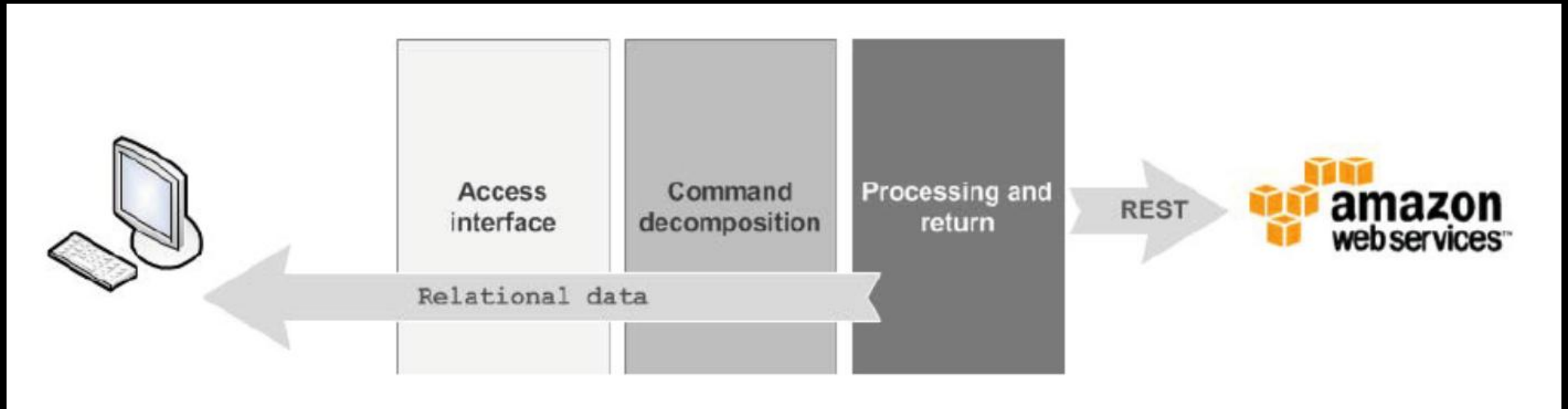


Simple DB & Dynamo DB

AWS Databases for storing data

AWS Simple DB – AWS first NoSQL database

- Simple NoSQL database
- Stored in “key: value” format.
- Fully managed – no worries about hardware, maintenance, availability.
- Pay-as-you-go pricing.



Column

Row

	A	B	C	D	E	F	G	H
1		Attribute 1	Attribute 2	Attribute 3	...	Attribute <n>		
2	Item 1	value	value	value	value	value		
3	Item 2	value	value	value	value	value		
4	Item 3	value	value	value	value	value		
5	...	value	value	value	value	value		
6	Item <n>	value	value	value	value	value		
7								
8								

Domain

Domain 1 Domain 2 ... Domain <n>

SimpleDB Data representation

- > Each **domain** (like a sheet) contains many **items** (rows).
- > Each item has **attributes** (columns), and each attribute holds **values**.
- > There's **no fixed schema** — some items might have fewer or more attributes.

Reason to “not use” Simple DB

10GB maximum per domain



```
graph TD; A[10GB maximum per domain] --> B[Need to create multiple domains for larger datasets]; B --> C[Managing multiple domains means weirdest nightmare]; C --> D[No way to query across domains];
```

Need to create multiple domains for larger datasets

Managing multiple domains means weirdest nightmare

No way to query across domains

Dynamo DB

AWS Dynamo DB – AWS successor NoSQL database

- **Amazon DynamoDB** is a **fully managed NoSQL database service** by AWS, launched in **2012** as the **successor** to SimpleDB.
- It offers **high availability, scalability, and low-latency performance** at any scale.
- It stores data as **key–value pairs** and supports **document-style data (JSON)**.
- DynamoDB automatically handles **scaling, partitioning, and replication** across multiple servers and regions.

THANK YOU