

Basics

Table	same as SQL table
Item	a single record (row)
Attribute	field of an item (column)
Partition Key	PK, determines partition (Hash Key)
Sort Key	(Optional) key to sort items (Range Key)
Primary Key	Partition Key OR Partition + Sort Key

Provisioning

RCU	Read Capacity Unit
1 RCU =	1 strongly consistent read per second
1 RCU =	two eventually consistent reads per second
WCU	Write Capacity Unit
1 WCU =	1 write per second for item up to 1kb
Throttling	requests are blocked due to capacity limit
On-Demand	pay per request
Provisioned	you define WCUs and RCUs
DAX	fully managed in-memory write through cache
not ideal for	strongly consistent reads.
not ideal for	write intensive, not read intensive (it's a cache)

Querying

Query	Reads items for a specific partition key
	- tables require a composite key for query
Scan	Reads entire table (Δ \square heavy on cost)
	- returns all attr. by default. ProjectExpression to limit

Streams

DynamoDB Streams	- set up a Lambda triggered every time data is modified in a table. Streams do not consume RCUs.
Records	are available for 24 hours

GSI (global secondary index)

Index with a different partition key and sort key
Only eventual consistency (no strong consistency)
Additional RCU and WCU needed
Δ \square Changes to table must be done to GSI
GSI can scale independently of main table => high throughput for indexed attr.

Transactions

Transactions	- can query multiple tables at once, all or nothing
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