

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	
<b>RCU</b>	Read Capacity Unit
1 RCU =	1 strongly consistent read per second
1 RCU =	two eventually consistent reads per second
<b>WCU</b>	Write Capacity Unit
1 WCU =	1 write per second for item up to 1kb
Throttling	requests are blocked due to capacity limit
<b>On-Demand</b>	pay per request
<b>Provisioned</b>	you define WCUs and RCUs
<b>DAX</b>	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
<b>Query</b> Reads items for a specific partition key
- tables require a composite key for query
<b>Scan</b> Reads entire table ( $\Delta$ $\square$ heavy on cost)
- returns all attr. by default. <b>ProjectionExpression</b> 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)
<b>Index with a different partition key and sort key</b>
Only eventual consistency (no strong consistency)
Additional RCU and WCU needed
$\Delta$ $\square$ Changes to table must be done to GSI
GSI can scale independently of main table => high throughput for indexed attr.

Transactions
<b>Transactions</b> - can query multiple tables at once, all or nothing



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