Project 5: AWS DynamoDB project

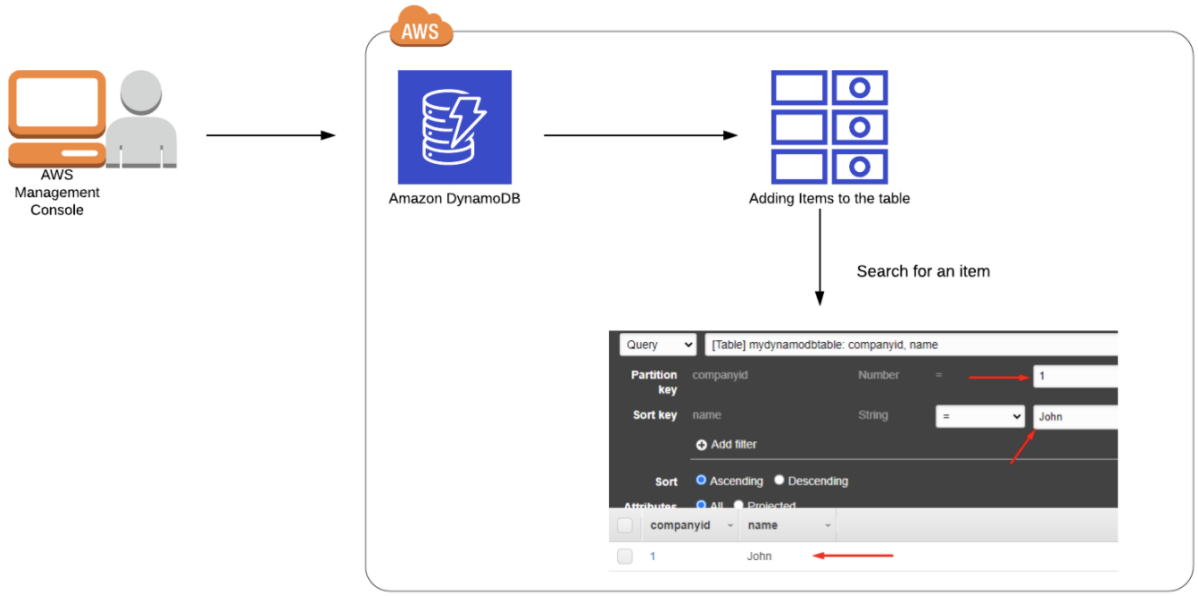
What is Amazon DynamoDB?

- DynamoDB is a fast and flexible NoSQL database designed for applications that need consistent, single-digit millisecond latency at any scale. It is a fully managed database and it supports both document and key value data models.
- It is a very flexible model. You don't need to define your database upfront. It also has a reliable performance.
- DynamoDB is a good fit for mobile gaming, ad-tech, IoT, and many other applications.

Objective of this project:

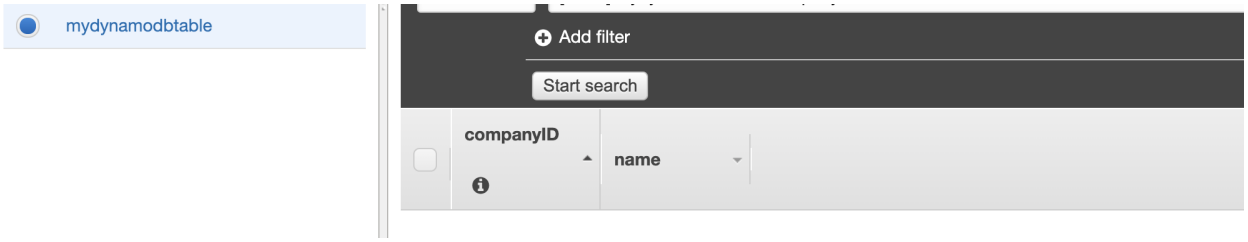
- We'll be creating a table in DynamoDB to store information and then query that information from the DynamoDB Table

Architecture Diagram:



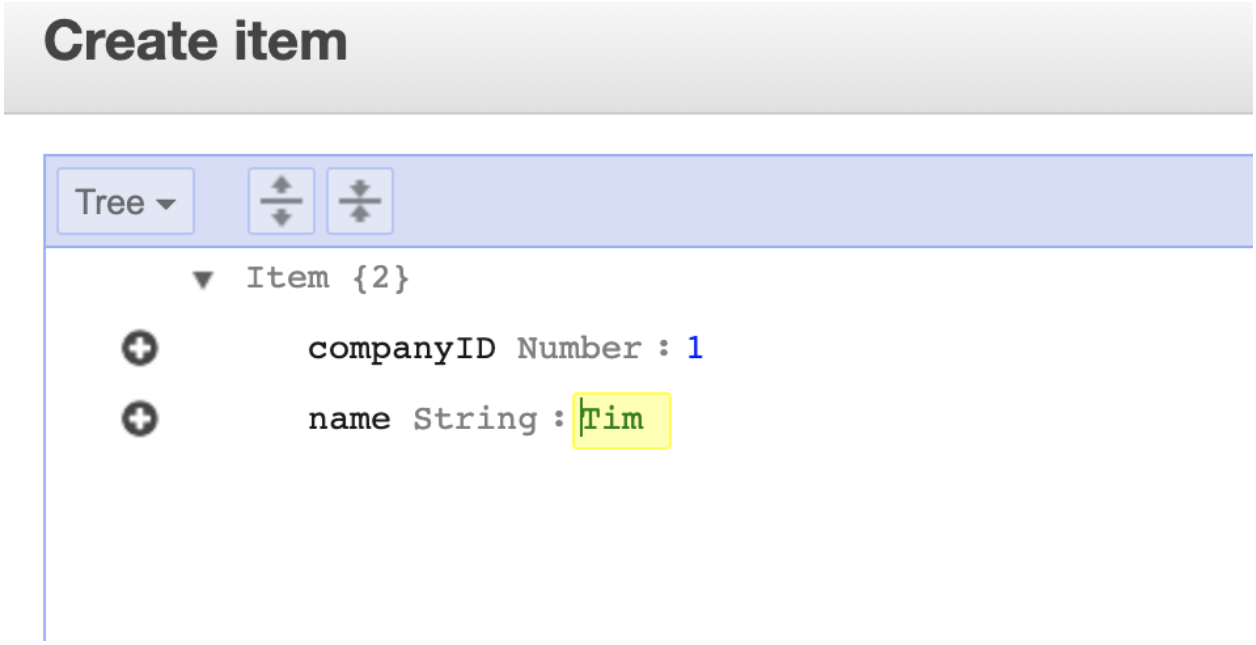
Step 1: Create DynamoDB table

We start with creating a DynamoDB table with a table, primary key, and a sort key. The combination of a Primary and a Sort Key uniquely identifies each item in a DynamoDB table.



Step 2: Inserting Data into the DynamoDB table

- For the table, we add in the items which consist of the companyID and the name. Here's one example below.



We then create multiple items in the table.

☐	1	Tim
☐	2	Scott
☐	3	Roger

Step 3: Searching for Items in the Table

We then do a filter-based search to see whether an item exists inside a table. For this example, I try to find Roger's name on the table by filtering by company ID which is valued at 3. That is Roger's designated ID.