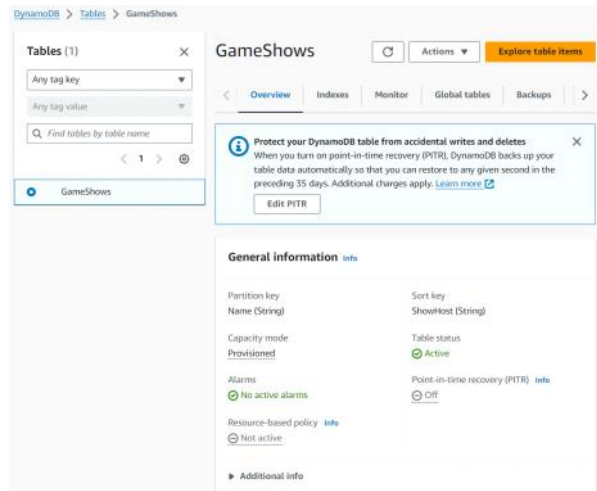
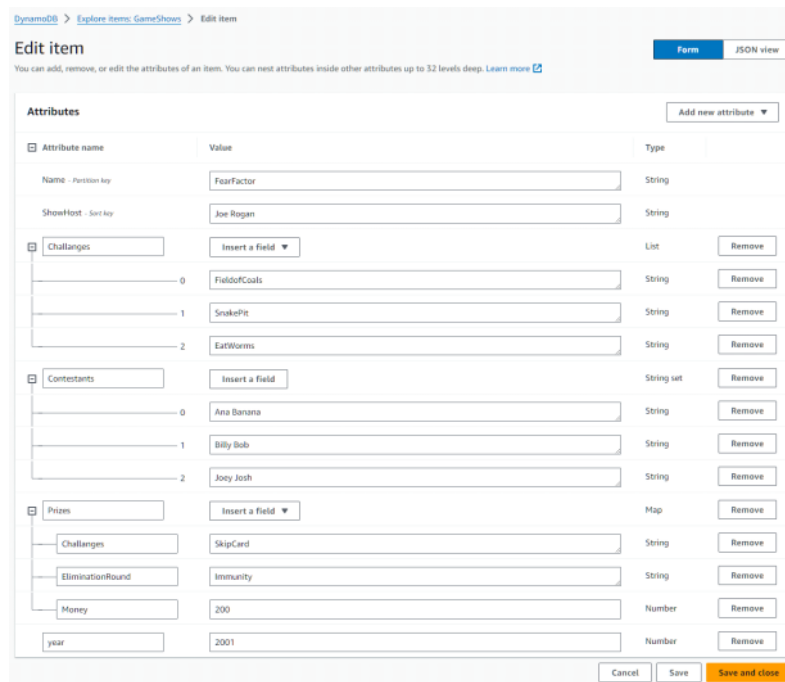


Meerza Ahmed | DSCI 551  
\*Due 4/10/24 @ 11:59 PM

- Q1:** Explain why you selected the particular attributes as the partition key and sort key.
- The Partition key is 'Name', my table is called 'GameShows' and is a collection of different game shows and data related to them. I chose name as my partition key because rarely or almost never do game shows even with multiple seasons share the same exact name.
  - The Sort key is 'ShowHost', every game show usually has a celebrity host to guide the contestants through the show and explain challenges to the audience. This is a good sort key since any combination of sort key and name will always point to a unique game show row in my table even if that game show has multiple seasons.



- Q2:** Insert at least one item into the table that meets all the type requirements mentioned above. Show a screenshot of this item in the DynamoDB console and identify each data type in the item.
- String: [Name, ShowHost] the name of the game show and the name of the host
  - Number: [year] this is the year that the game show released
  - String Set: [Contestants] this is the name of the different people participating in the game show
  - List: [Challenges] I used the list datatype to show the different challenges in the order they appear so the first challenge is 'FieldofCoals'
  - Map: [Prizes] This is what a contestants gains from winning challenges such money, or elimination immunity, or skipping challenges.



- Q3:** Show the 'JSON view' of the above item and explain its format (e.g., how each attribute's data type is presented in JSON view)
- The whole Item is a Json object and every attribute is a Json key with each datatype being the key before the value
    - Name, ShowHost, Year are all keys with a key-value item. The key being the attribute and the key-value items being the datatype and value of the attribute. Exp: Name: { S: "FearFactor" }

- **Challenges** is the key to a Json array with datatype L being the key to the array of key-value pairs. For example Challenge is the key to the Json array L which has key value pairs S: FieldofCoals, S:SnakePit...etc
- **Contestants** is a little different in that it is the key to value SS (datatype string set), and value SS is an array of contestants as in [Ana Banana, Billy Bob...etc]
- **Prizes** is the key to a key-value pair of Prize: {M} but M is also a key-value pair to M :[Challenges] and Challenges is also a key value pair of Challenges: { S: Skip card}. The Data types are again keys, so Map (M), and String (S:"Skipcard"), Number (N:200)

DynamoDB > Explore items: GameShows > Edit item

### Edit item

You can add, remove, or edit the attributes of an item. You can nest attributes inside o

**Attributes** [View DynamoDB JSON](#)

```

1  {
2    "Name": {
3      "S": "FearFactor"
4    },
5    "ShowHost": {
6      "S": "Joe Rogan"
7    },
8    "Challenges": {
9      "L": [
10     {
11       "S": "FieldofCoals"
12     },
13     {
14       "S": "SnakePit"
15     },
16     {
17       "S": "EatWorms"
18     }
19   ],
20 },
21 "Contestants": {
22   "SS": [
23     "Ana Banana ",
24     "Billy Bob",
25     "Joey Josh"
26   ],
27 },
28 "Prizes": {
29   "M": {
30     "Challenges": {
31       "S": "SkipCard"
32     },
33     "EliminationRound": {
34       "S": "Immunity"
35     },
36     "Money": {
37       "N": "200"
38     }
39   },
40 },
41 "year": {
42   "N": "2001"
43 }
44 }

```

JSON Ln 44, Col 2 0 Errors: 0 0 Warnings: 0

**Q4:** Execute the scan and query methods on your table. Show a screenshot for each operation

GameShows

Autopreview View table details

▼ Scan or query items

☒ Scan
 ☐ Query

Select a table or index  
 Table - GameShows

Select attribute projection  
 Specific attributes

Specific attributes to project  
 Enter attribute name

Name

▼ Filters  

Attribute name	Type	Condition	Value
<input type="text"/> Enter attribute name	String	Equal to	<input type="text"/> Enter attribute value

Completed. Read capacity units consumed: 0.5

Items returned (2)

	Name (String)
<input type="checkbox"/>	Physical100
<input type="checkbox"/>	FearFactor

GameShows

Autopreview View table details

▼ Scan or query items

☐ Scan
 ☒ Query

Select a table or index  
 Table - GameShows

Select attribute projection  
 Specific attributes

Specific attributes to project  
 Enter attribute name

Name

Name (Partition key)  
 FearFactor

ShowHost (Sort key)  
 Equal to  Enter sort key value
 ☐ Sort descending

▼ Filters  
 Add a filter to get started.

Completed. Read capacity units consumed: 0.5

Items returned (1)

	Name (String)
<input type="checkbox"/>	FearFactor