

## Lab 09

The screenshot shows the AWS DynamoDB console interface. On the left, the 'DynamoDB' sidebar is visible with options like Dashboard, Tables, Explore items, PartiQL editor, Backups, Exports to S3, Imports from S3, Integrations, and Settings. The main area displays the 'StudentRecords-252' table. A 'Tables (153)' filter is applied, showing 'Any tag key' and 'Any tag value' with a search for '252'. The 'StudentRecords-252' table is selected. On the right, the 'Scan or query items' section is active, showing 'Scan' selected over 'Query'. Below this, 'Select a table or index' is set to 'Table - StudentRecords-252' and 'Select attribute projection' is set to 'All attributes'. A 'Filters' section is empty. At the bottom, a green status bar indicates 'Completed. Read capacity units consumed: 2'.

The screenshot shows the AWS Lambda console interface. A green notification bar at the top states 'Successfully updated the function LambdaDynamoIntegration-252'. The main area is titled 'Code source' and shows the code for the 'lambda\_function.py' file. The code is as follows:

```
1 from boto3 import client, resource
2 from botocore.exceptions import ClientError
3
4 # Initialize the DynamoDB resource
5 dynamodb = boto3.resource('dynamodb')
6 table = dynamodb.Table('StudentRecords')
7
8 def lambda_handler(event, context):
9     # Extract action and parameters from the event
10    action = event.get('action')
11    student_id = event.get('student_id')
12    student_data = event.get('student_data', {})
13
14    try:
15        if action == 'create':
16            response = table.put_item(
17                Item=student_data
```

The code is displayed in a code editor with a file explorer on the left showing the project structure. The 'Deploy' button is visible below the code editor.

The screenshot shows the AWS Lambda console interface. A green notification bar at the top states 'Successfully created the function LambdaDynamoIntegration-252. You can now change its code and configuration. To invoke your function with a test event, choose "Test".' The main area is titled 'LambdaDynamoIntegration-252' and shows the 'Function overview' section. The 'Diagram' tab is selected, showing a visual representation of the function. The 'Layers' section shows '(0)' layers. The 'Description' section is empty. The 'Last modified' section shows '11 seconds ago'. The 'Function ARN' section shows 'arn:aws:lambda:ap-south-1:329599625651:function:LambdaDynamoIntegration-252'. The 'Function URL' section is empty. The 'Add trigger' and 'Add destination' buttons are visible at the bottom.