Quick Fix Guide - DynamoDB Connection Issue

🚨 Problem

Your application cannot connect to DynamoDB because it's using Abacus AWS credentials that don't have DynamoDB permissions.

✅ Quick Solution (2 Steps)

Step 1: Run the Setup Script

I've created a script that will automatically configure your AWS credentials:

```
cd /home/ubuntu/github_repos/raven-backend
./setup-aws-credentials.sh
```

The script will:
- ✅ Configure your AWS credentials
- ✅ Verify they work
- ✅ Check if DynamoDB tables exist
- ✅ Optionally create the tables for you

Step 2: Start Your Application

```
./mvnw quarkus:dev
```

Then test it:

```
curl http://localhost:8080/api/products
```

📝 What You Need

Before running the setup script, make sure you have:

1. **Your AWS Access Key ID**
2. **Your AWS Secret Access Key**
3. **IAM permissions for DynamoDB** (PutItem, GetItem, UpdateItem, DeleteItem, Scan, Query)

Where to Get AWS Credentials

1. Go to AWS Console (https://console.aws.amazon.com/)
2. Navigate to **IAM** > **Users** > Your user
3. Go to **Security credentials** tab
4. Click **Create access key**

5. Save the Access Key ID and Secret Access Key

Required IAM Permissions

Your AWS user needs these permissions:

```json
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "dynamodb:PutItem",
        "dynamodb:GetItem",
        "dynamodb:UpdateItem",
        "dynamodb:DeleteItem",
        "dynamodb:Scan",
        "dynamodb:Query",
        "dynamodb:CreateTable",
        "dynamodb:DescribeTable"
      ],
      "Resource": [
        "arn:aws:dynamodb:eu-central-1:*:table/raven-dev-*"
      ]
    }
  ]
}
```

🔍 What Was Wrong?

Issue	Details
❌ **Problem**	Application was using Abacus AWS credentials without DynamoDB access
✅ **Configuration**	Table names are correctly configured as `raven-dev-categories`, `raven-dev-products`, `raven-dev-orders`
✅ **Code**	Repository classes are correctly implemented
⚠️ **Missing**	Your personal AWS credentials with DynamoDB permissions

🆘 Alternative: Manual Configuration

If you prefer to configure manually instead of using the script:

Option A: Environment Variables

```
export AWS_ACCESS_KEY_ID=your-access-key-id
export AWS_SECRET_ACCESS_KEY=your-secret-access-key
export AWS_REGION=eu-central-1
./mvnw quarkus:dev
```

Option B: AWS Credentials File

1. Create directory: `mkdir -p ~/.aws`
2. Create `~/.aws/credentials` :
   ```ini
   [default]
   aws_access_key_id = your-access-key-id
   aws_secret_access_key = your-secret-access-key
   ```
3. Create `~/.aws/config` :
   ```ini
   [default]
   region = eu-central-1
   ```
4. Run: `./mvnw quarkus:dev`

📚 Need More Details?

See the full investigation report: DYNAMODB_ISSUE_RESOLUTION.md (./DYNAMODB_ISSUE_RESOLUTION.md)

🎯 Summary

Current Status: Your application code is correct! ✅
Issue: Missing AWS credentials with DynamoDB permissions ❌
Solution: Run `./setup-aws-credentials.sh` and provide your AWS credentials ✅

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