Module 12: Manage an Azure Cosmos DB SQL API solution using DevOps practices

Write management scripts for Azure Cosmos DB SQL API

Create resources

In this module, we will use Azure CLI to manage Azure Cosmos DB SQL API accounts.

In [ ]:
```
az cosmosdb create --help
```

Create the account

In [ ]:
```
az cosmosdb create `
   --name 'cosmos-dp-420-sql-cli' `
   --resource-group 'rg-dp-420' `
   --default-consistency-level 'eventual' `
   --enable-free-tier 'true' `
   --locations regionName='eastus'
```

Create a database

In [ ]:
```
az cosmosdb sql database create `
   --account-name 'cosmos-dp-420-sql-cli' `
   --resource-group 'rg-dp-420' `
   --name 'mydatabase'
```

Create a container

In [ ]:
```
az cosmosdb sql container create `
    --account-name 'cosmos-dp-420-sql-cli' `
    --resource-group 'rg-dp-420' `
    --database-name "mydatabase" `
    --name mycontainer `
    --partition-key-path "/my/path" `
    --ttl 1000 `
    --throughput "400"
```

Manage index policies

When creating a container, you specify the indexing policy using CLI.

In [ ]:
```
az cosmosdb sql container create `
    --account-name 'cosmos-dp-420-sql-cli' `
    --resource-group 'rg-dp-420' `
    --database-name "mydatabase" `
    --name mycontainerwithindex `
    --partition-key-path "/my/path" `
    --ttl 1000 `
    --throughput "400" `
    --idx '{\"indexingMode\":\"consistent\",\"automatic\":true,\"includedPaths\":[{\"pat
```

Configure database or container-provisioned throughput

You can manage the provisioned throughput for both containers and databases using the CLI.

In [ ]:
```
az cosmosdb sql database create `
   --account-name 'cosmos-dp-420-sql-cli' `
   --resource-group 'rg-dp-420' `
   --name 'mydatabasewiththroughput' `
   --throughput 400
```

In [ ]:
```
az cosmosdb sql database throughput update `
   --account-name 'cosmos-dp-420-sql-cli' `
   --resource-group 'rg-dp-420' `
   --name 'mydatabasewiththroughput' `
   --throughput 600
```

In [ ]:
```
az cosmosdb sql container throughput update `
    --account-name 'cosmos-dp-420-sql-cli' `
    --resource-group 'rg-dp-420' `
    --database-name "mydatabase" `
    --name mycontainerwithindex `
    --throughput 1000
```

Migrate between standard and autoscale throughput

In [ ]:
```
az cosmosdb sql container throughput migrate `
    --account-name 'cosmos-dp-420-sql-cli' `
    --resource-group 'rg-dp-420' `
    --database-name "mydatabase" `
    --name mycontainerwithindex `
    --throughput-type 'autoscale'
```

In [ ]:
```
az cosmosdb sql container throughput update `
    --account-name 'cosmos-dp-420-sql-cli' `
    --resource-group 'rg-dp-420' `
    --database-name "mydatabase" `
    --name mycontainerwithindex `
    --max-throughput 2000
```

In [ ]:
```
az cosmosdb sql container throughput migrate `
    --account-name 'cosmos-dp-420-sql-cli' `
    --resource-group 'rg-dp-420' `
```