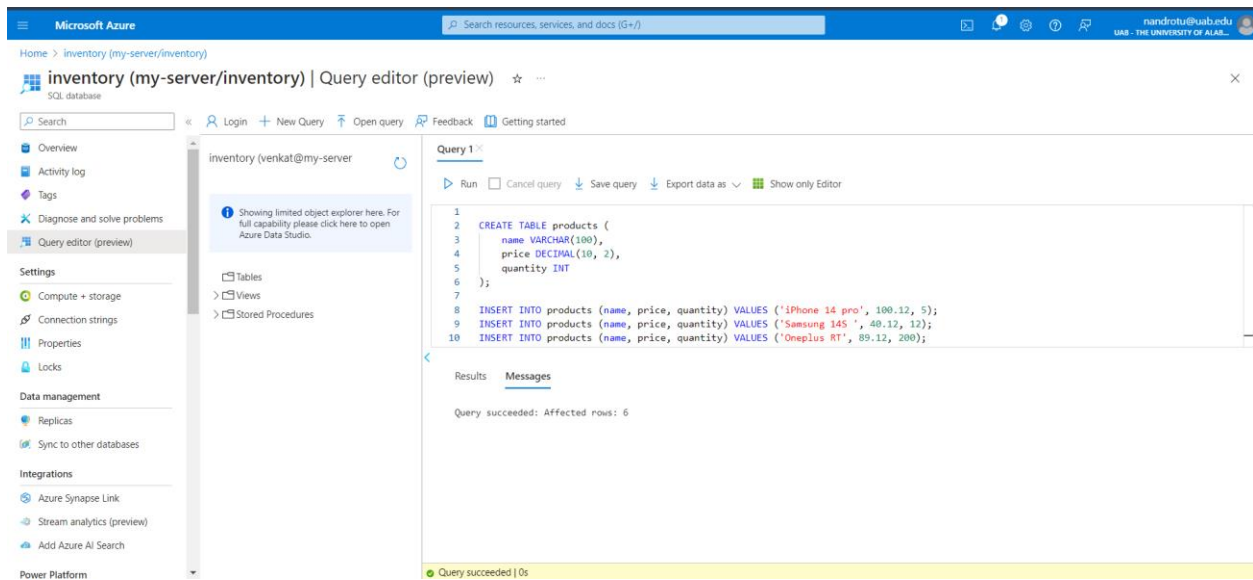


Azure Database Connection & POSTMAN API Tests

Azure Database Creation:

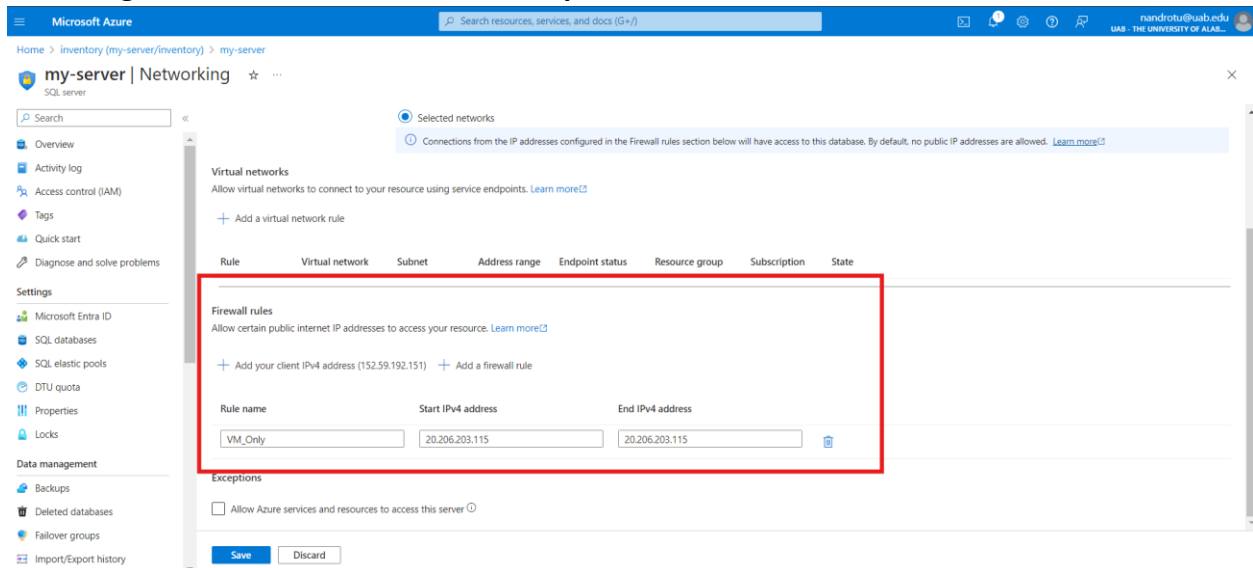


The screenshot shows the Azure portal interface for the 'inventory (my-server/inventory)' SQL database. The 'Query editor (preview)' is open, displaying a SQL script to create a 'products' table and insert data. The script is as follows:

```
1 CREATE TABLE products (  
2   name VARCHAR(100),  
3   price DECIMAL(10, 2),  
4   quantity INT  
5 );  
6  
7  
8 INSERT INTO products (name, price, quantity) VALUES ('iPhone 14 pro', 100.12, 5);  
9 INSERT INTO products (name, price, quantity) VALUES ('Samsung 14S ', 40.12, 12);  
10 INSERT INTO products (name, price, quantity) VALUES ('Oneplus RT', 89.12, 200);
```

The results section shows 'Query succeeded: Affected rows: 6'.

Accessing Azure Database from Local Computer:



The screenshot shows the Azure portal interface for the 'my-server | Networking' page. The 'Firewall rules' section is highlighted with a red box, showing a rule named 'VM_Only' with a start IPv4 address of 20.206.203.115 and an end IPv4 address of 20.206.203.115.

Rule	Virtual network	Subnet	Address range	Endpoint status	Resource group	Subscription	State
VM_Only			20.206.203.115				

Azure Database Connection & POSTMAN API Tests

Cross Check :

Microsoft Azure

Home > inventory (my-server/inventory) | Query editor (preview)

SQL database

Search

Overview

Activity log

Tags

Diagnose and solve problems

Query editor (preview)

Settings

Compute + storage

Connection strings

Properties

Locks

Data management

Replicas

Sync to other databases

Integrations

Azure Synapse Link

Stream analytics (preview)

Add Azure AI Search

Power Platform

Welcome to SQL Database Query Editor

SQL server authentication

Login *

venkat@my-server

Password *

Microsoft Entra authentication

Continue as nandrotu@uab.edu

OR

Cannot open server 'my-server' requested by the login. Client with IP address '152.59.192.151' is not allowed to access the server. To enable access, use the Azure Management Portal or run sp_set_firewall_rule on the master database to create a firewall rule for this IP address or address range. It may take up to five minutes for this change to take effect. Allowlist IP 152.59.192.151 on server my-server

OK

Database Creation

Microsoft Azure

Home > inventory (my-server/inventory) | Query editor (preview)

SQL database

Search

Overview

Activity log

Tags

Diagnose and solve problems

Query editor (preview)

Settings

Compute + storage

Connection strings

Properties

Locks

Data management

Replicas

Sync to other databases

Integrations

Azure Synapse Link

Stream analytics (preview)

Add Azure AI Search

Power Platform

inventory (venkat@my-server)

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

Tables

dbo.products

Id (PK, int, not null)

name (varchar, null)

price (decimal, null)

quantity (int, null)

Views

Stored Procedures

Query 1

Run

Cancel query

Save query

Export data as

Show only Editor

```
1 INSERT INTO products (name, price, quantity) VALUES ('iPhone 14 pro', 100.12, 5);
2 INSERT INTO products (name, price, quantity) VALUES ('Samsung 14S', 40.12, 12);
3 INSERT INTO products (name, price, quantity) VALUES ('Oneplus RT', 89.12, 200);
4 INSERT INTO products (name, price, quantity) VALUES ('Google Pixel', 102.12, 8);
5 INSERT INTO products (name, price, quantity) VALUES ('Nothing 12B', 140.02, 12);
6 INSERT INTO products (name, price, quantity) VALUES ('POCO M6 PRO 5G', 12.12, 200);
7
```

Results

Messages

Query succeeded: Affected rows: 6

Query succeeded | 0s

Azure Database Connection & POSTMAN API Tests

1. Retrieve All Products

REST API basics: CRUD, test & variable / Retriving All Products

GET http://20.206.203.115/products

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

Key	Value	Description
-----	-------	-------------

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
1 [
2   {
3     "Id": 1,
4     "name": "iPhone 14 pro",
5     "price": 160.12,
6     "quantity": 5
7   },
8   {
9     "Id": 2,
10    "name": "Readme Note5 pro",
11    "price": 15.99,
12    "quantity": 150
13  },
14  {
15    "Id": 3,
16    "name": "Oneplus RT",
17    "price": 89.12,
18    "quantity": 200
19  },
20  {
21    "Id": 4,
22    "name": "Google Pixel",
23    "price": 102.12,
```

Status: 200 OK Time: 2.45 s Size: 654 B Save as example

2. Retrieve Single Product

REST API basics: CRUD, test & variable / Retriving Products using Product_Id

GET http://20.206.203.115/products/2

Params Authorization Headers (6) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

1

Body Cookies Headers (7) Test Results

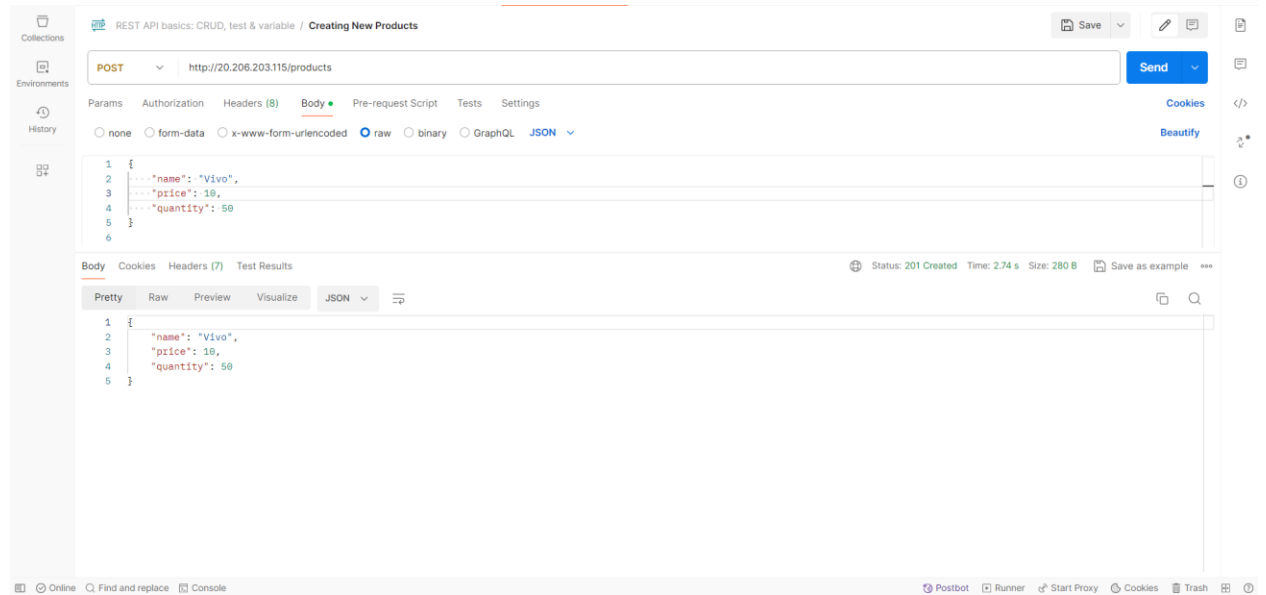
Pretty Raw Preview Visualize JSON

```
1 {
2   "Id": 2,
3   "name": "Readme Note5 pro",
4   "price": 15.99,
5   "quantity": 150
6 }
```

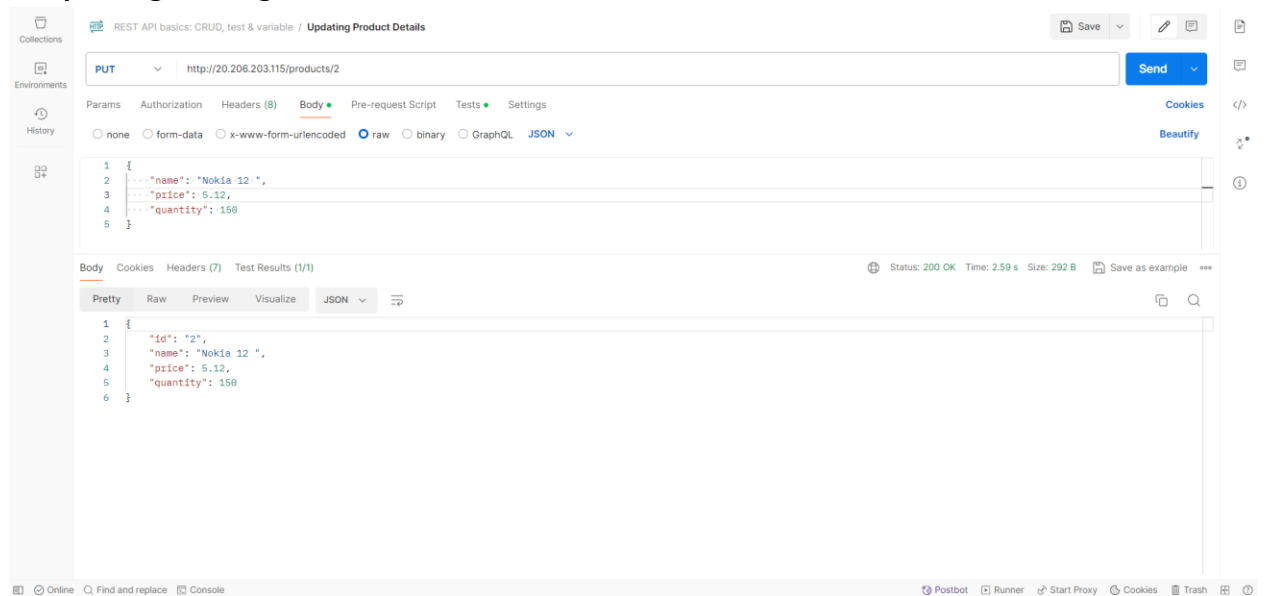
Status: 200 OK Time: 2.83 s Size: 298 B Save as example

Azure Database Connection & POSTMAN API Tests

3. Creating New Products

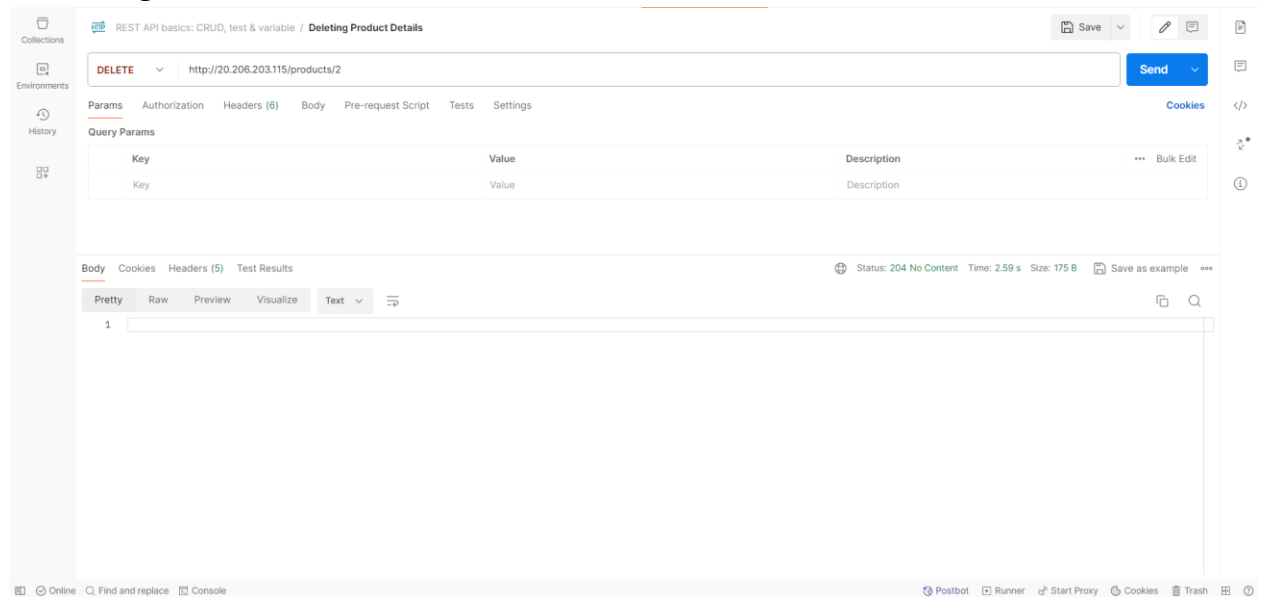


4. Updating Existing Product



Azure Database Connection & POSTMAN API Tests

5. Deleting Product



Challenges:

1. Creating VM at specified inbound ports to handle Incoming Requests
2. I usually use 3000 but 3000 port is not listed in Azure so I changed port to 80
3. I learnt Testing VM API from my local machine it's challenging but changing port numbers, permissions.