DocumentDB on Azure – Cosmos DB

This demo will help you on creating a DocumentDB, managing it, uploading documents on JSON files towards it and writing queries on it.

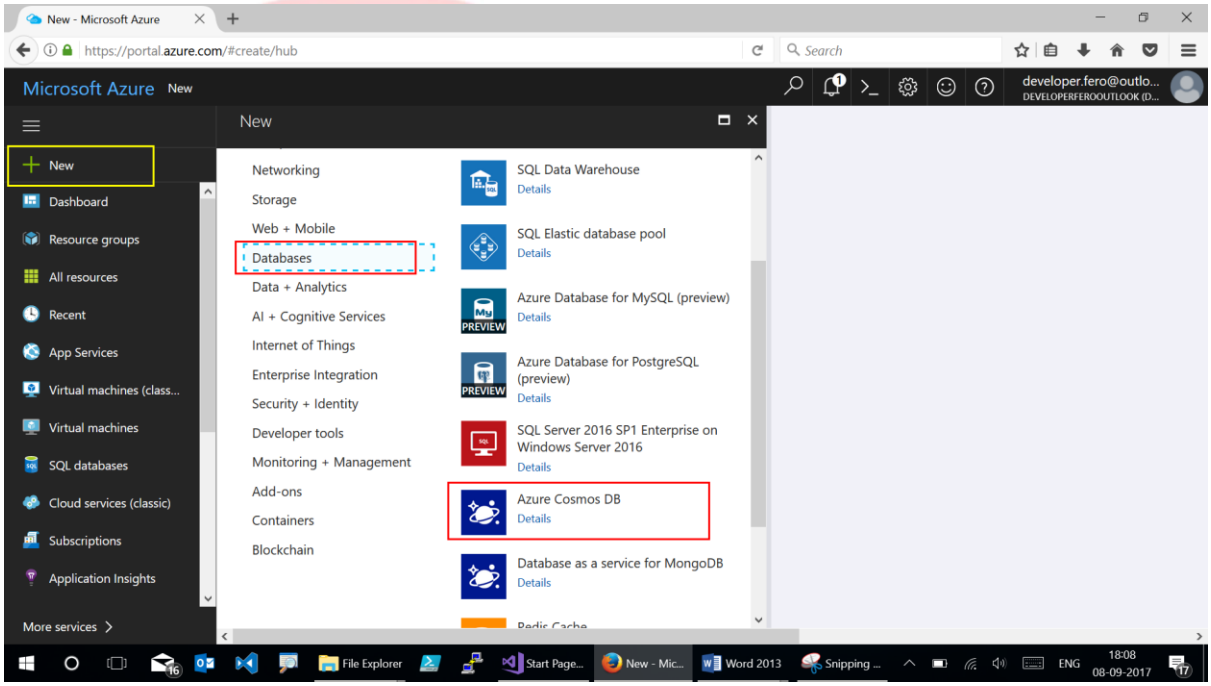
Pre-requisites:

- Azure Subscription

Follow the below steps now:

Step – 01:

Login to the azure portal using www.portal.azure.com and go for New → Databases → Azure Cosmos DB.

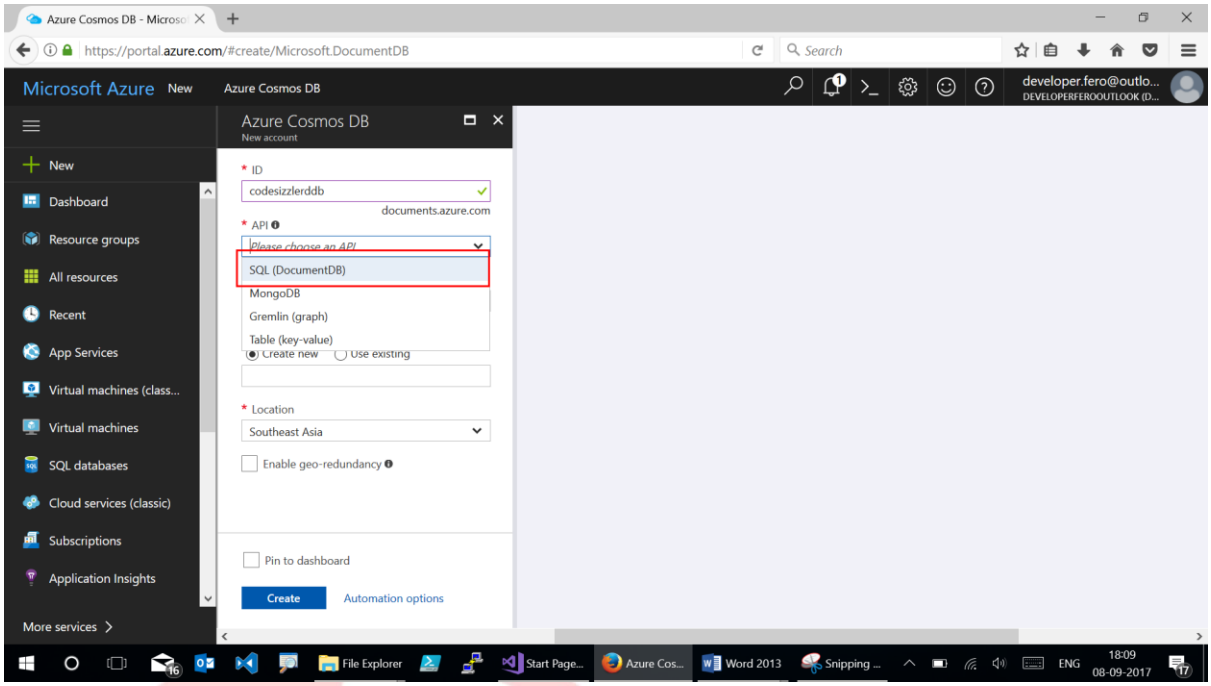


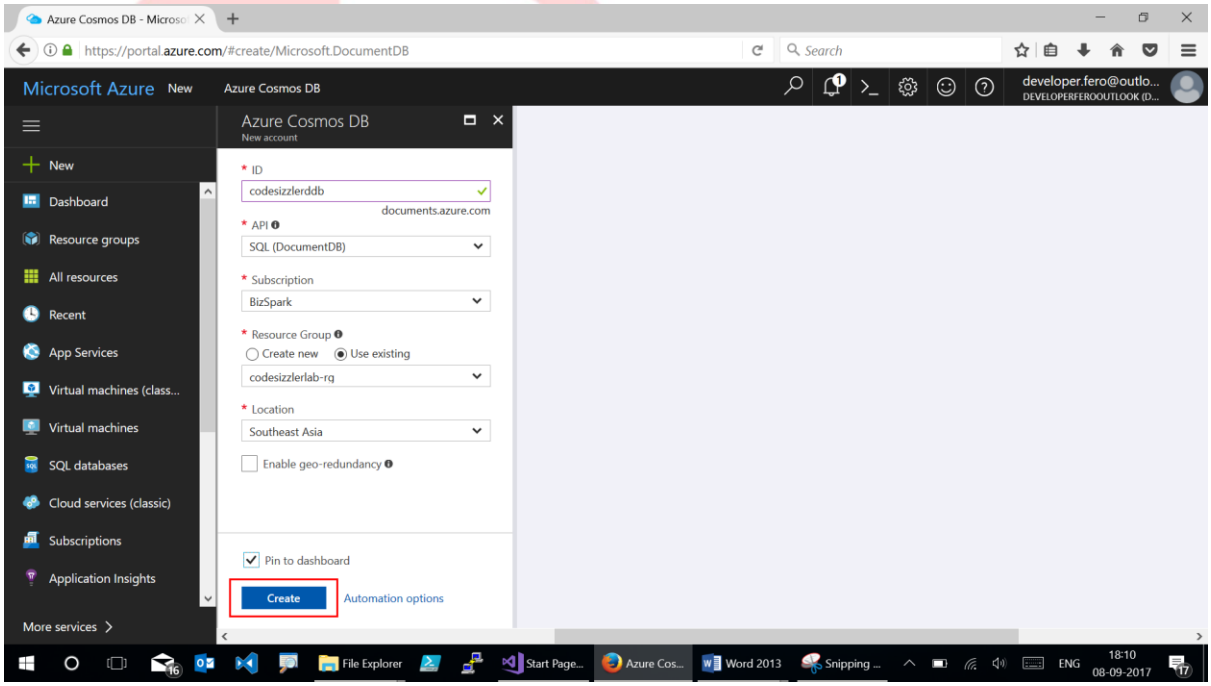
Step – 02:

Enter the below fields to create the Cosmos DB, Cosmos DB comes up with different API's including DocumentDB, MongoDB, Gremlin and Table. Lets go with DocumentDB over here.

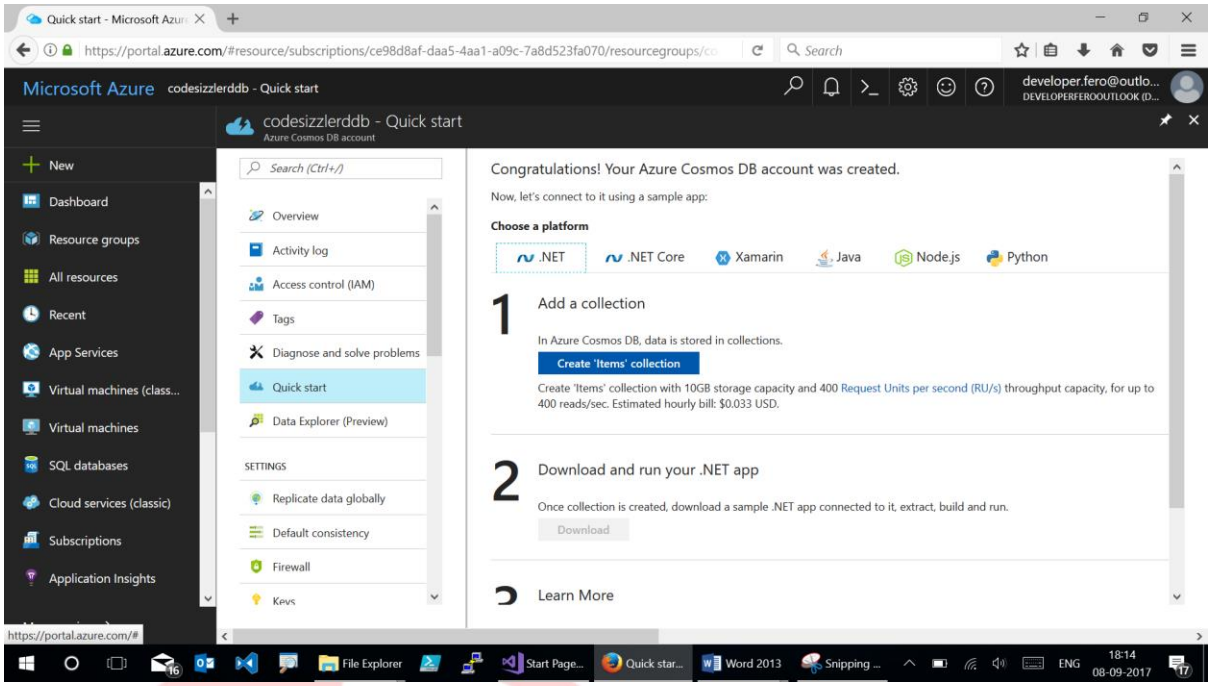
- ID – ID for Azure Cosmos DB
- API – DocumentDB (SQL)
- Subscription – select the subscription
- Resource Group – create a new resource group or use an existing one over here
- Location – location for the data center of where this Cosmos DB has to be deployed

Click on Create to create the Azure Cosmos DB.



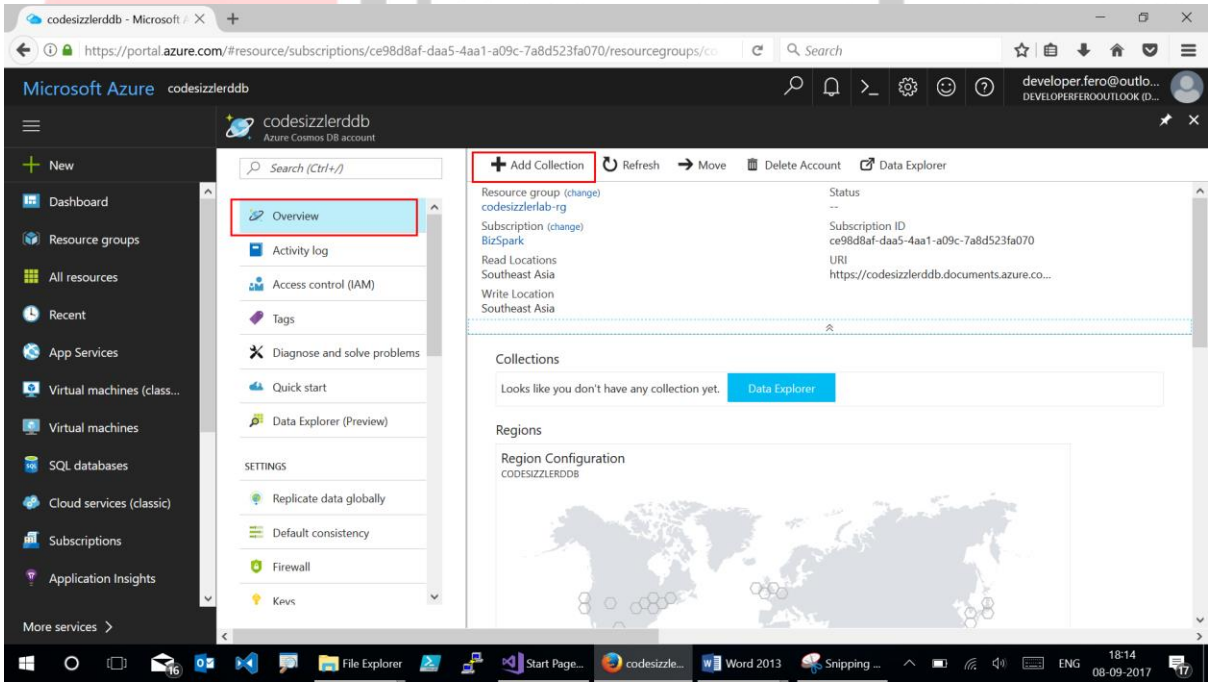


Here goes the Cosmos DB deployed.



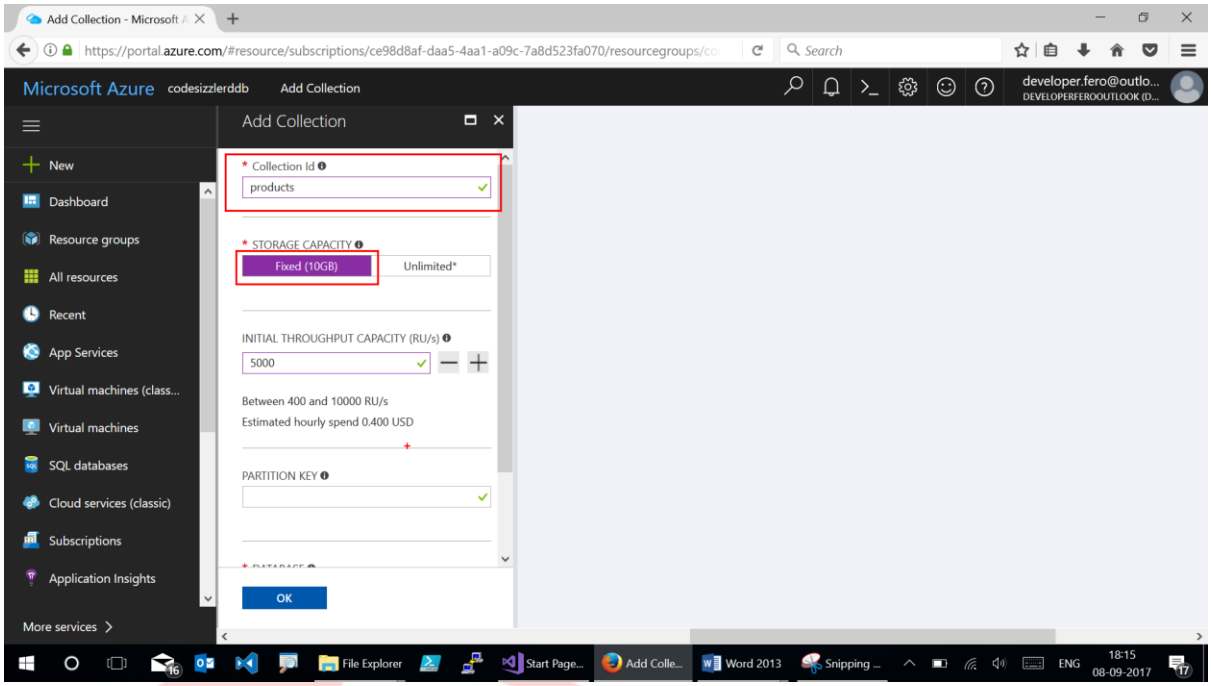
Step – 03:

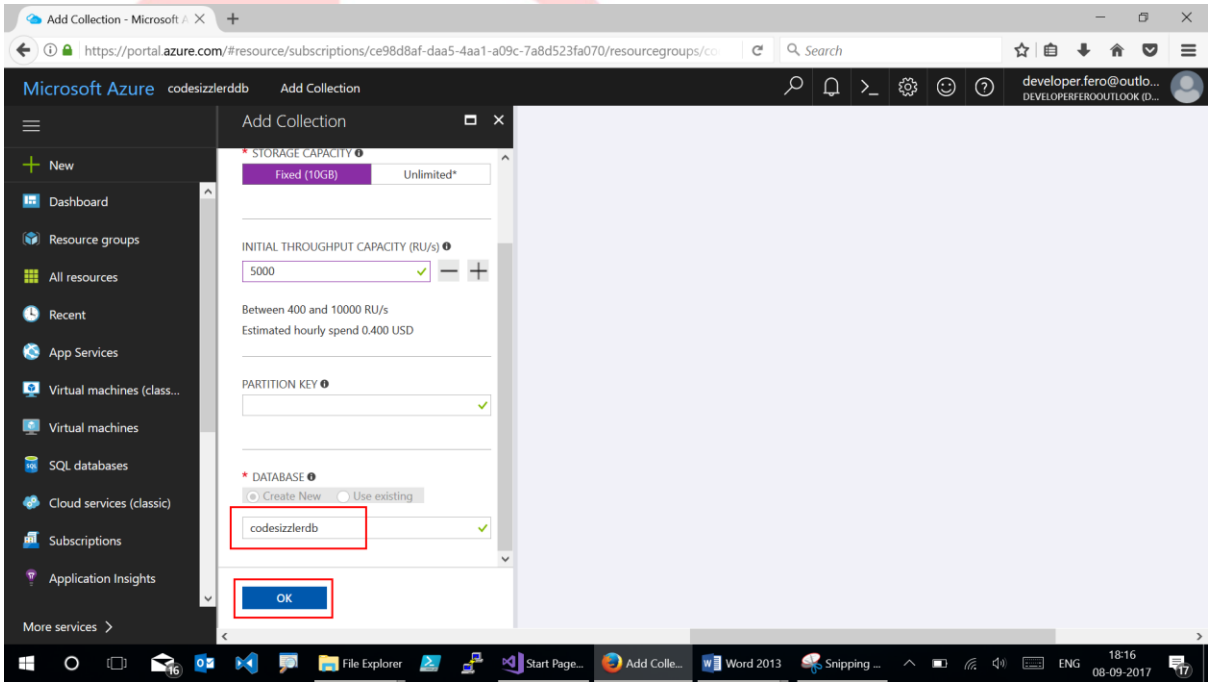
Go for overview and click on Add Collection to create collection ID, storage capacity, database name, etc.,



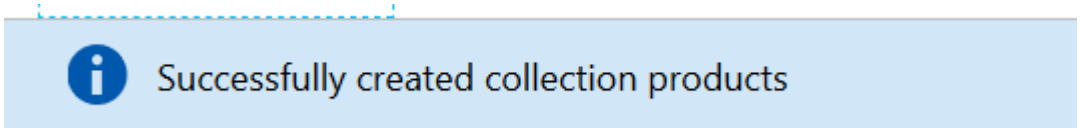
Enter the below details to create the collection:

- Collection ID – name for the collection ID
- Storage Capacity – Fixed (10GB) of capacity or unlimited storage
- Database – name the database over here





Click on “OK” to create the collection. Once after the collection is created, there will be a notification of “Successfully created collection products” as shown below:



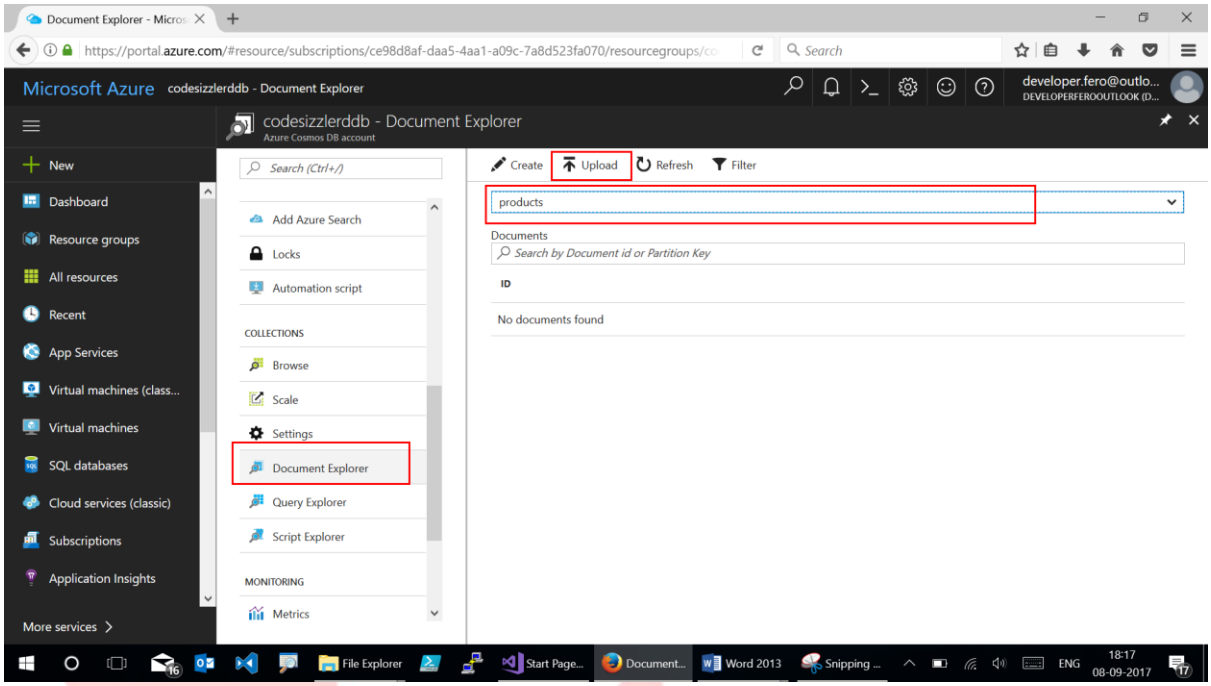
The overview pane on Cosmos DB shows the Collections listed out.

Collections

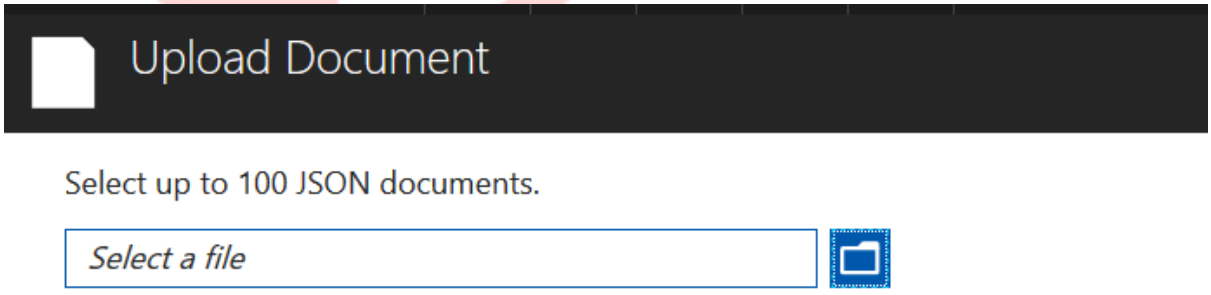
ID	DATABASE	THROUGHPUT (RU/S)	STORAGE	EST. HOURLY COST (...
products	codesizzlerdb	5000	0 kB	0.40
TOTAL		5000	0 kB	0.4

Step – 04:

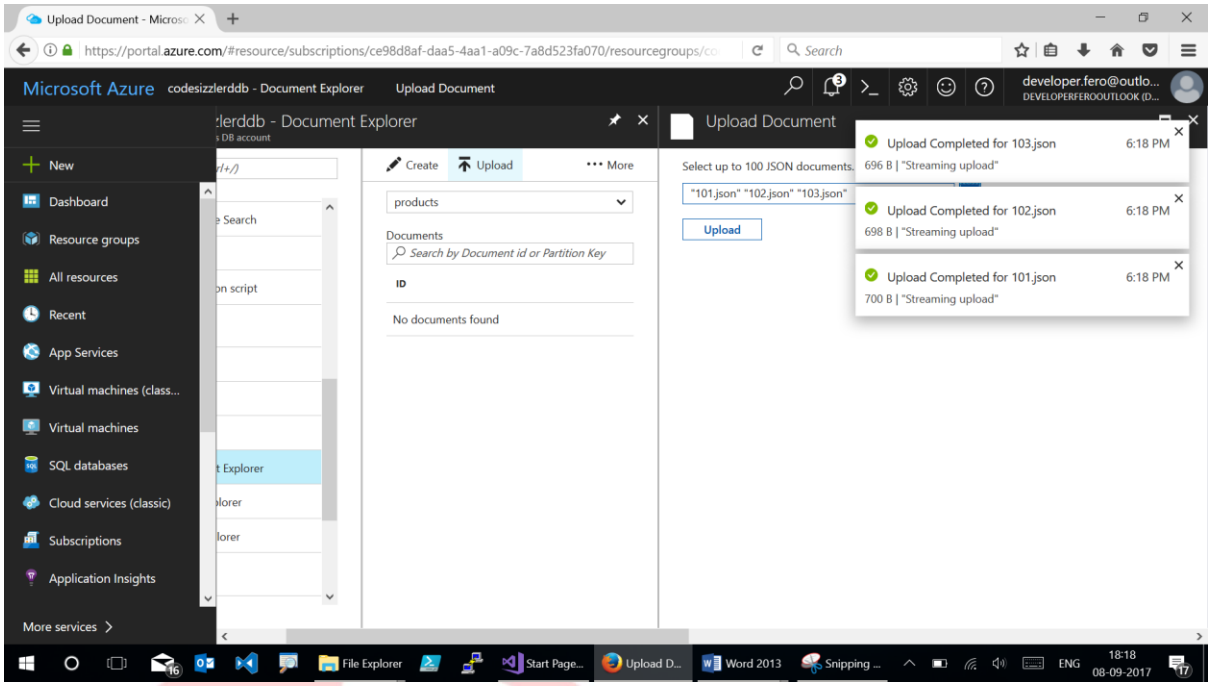
Go for “Document Explorer” and click on “Upload” to upload the document.



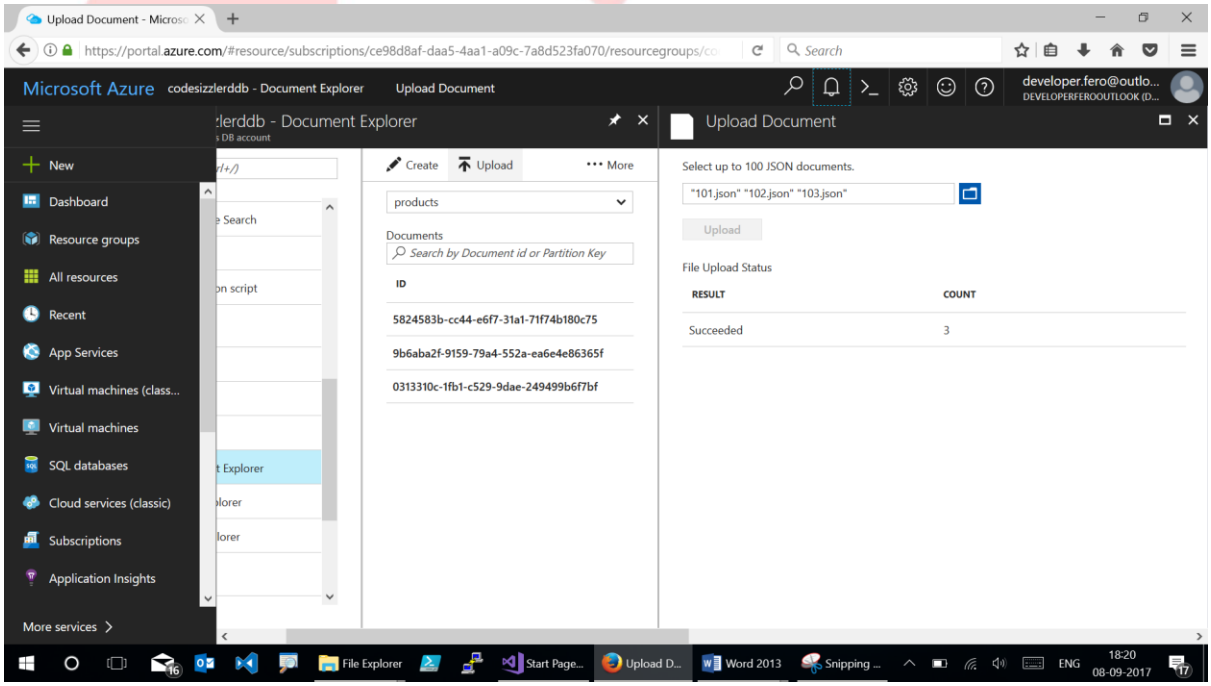
Upload the JSON documents with help of the blade which opens up as shown below, maximum of 100 JSON documents can be uploaded over here.



Once when the JSON documents are uploaded, notifications will be listed out as the JSON document is uploaded successfully as shown below.

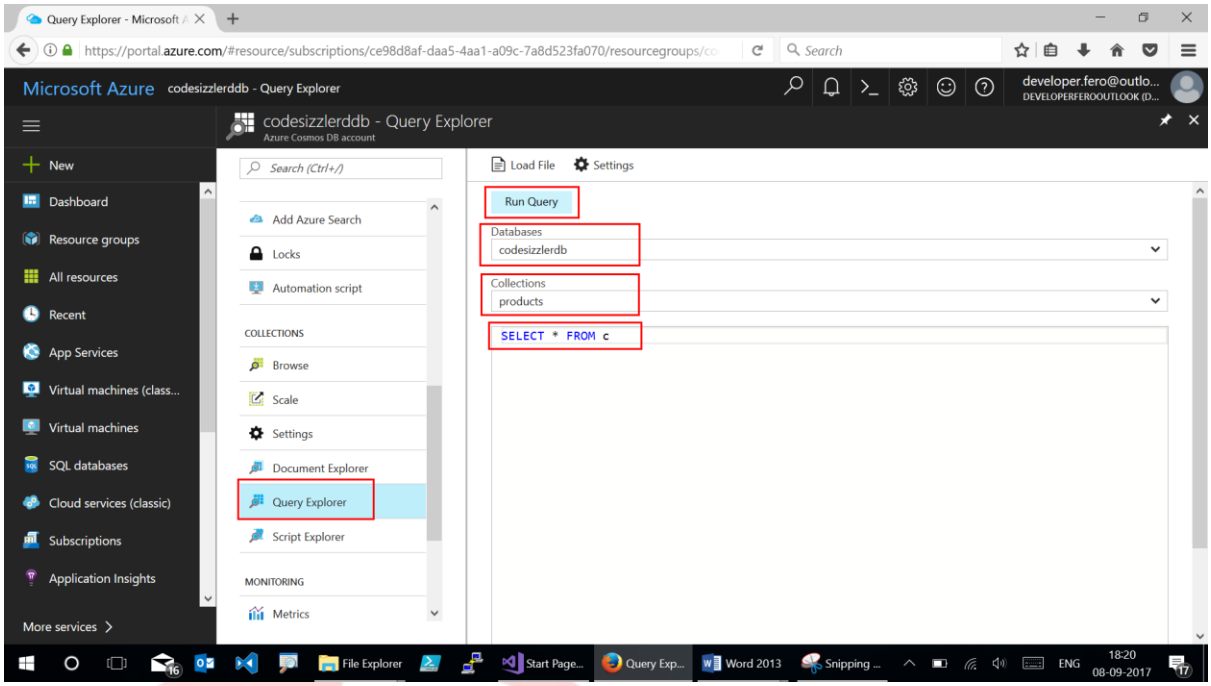


Succeeded defines that the JSON documents have been uploaded.



Step – 05:

Go for query explorer and write queries to filter out from the documents which has been uploaded. Select the databases and collection from where it has to be filtered and write the queries, click on Run Query to run the queries written.


Query Explorer - Microsoft
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Cloud services (classic)
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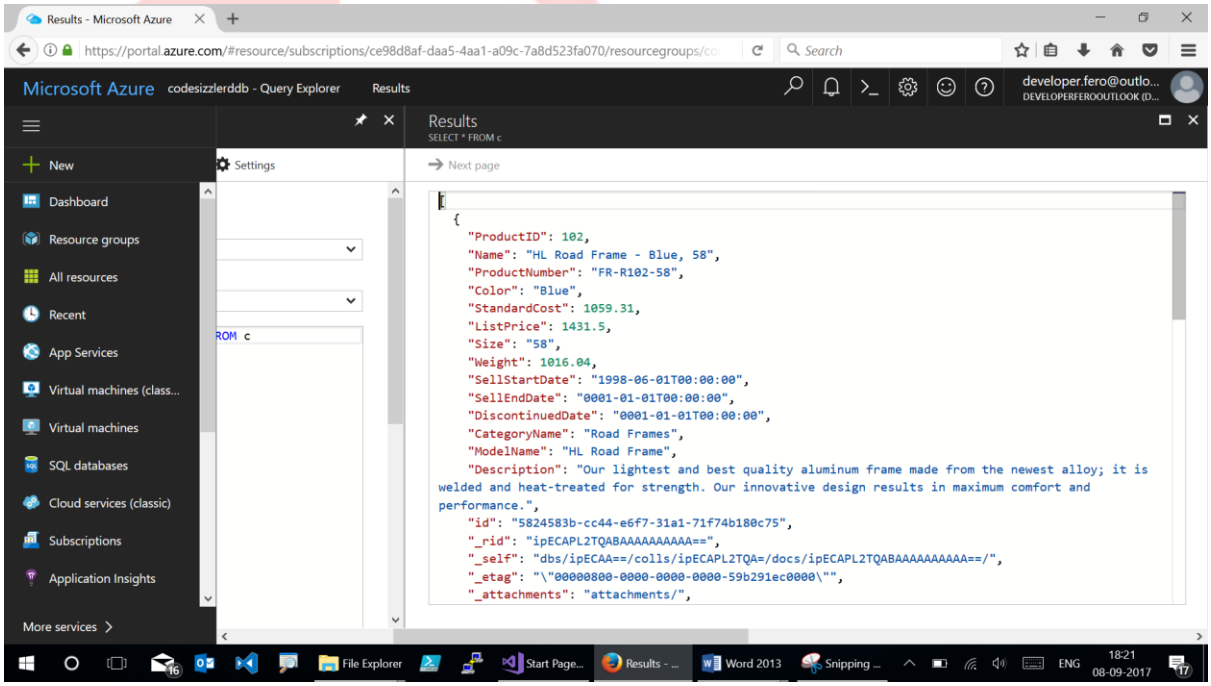
Results - Microsoft Azure
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{
"ProductID": 102,
"Name": "HL Road Frame - Blue, 58",
"ProductNumber": "FR-R102-58",
"Color": "Blue",
"StandardCost": 1059.31,
"ListPrice": 1431.5,
"Size": "58",
"Weight": 1016.04,
"SellStartDate": "1998-06-01T00:00:00",
"SellEndDate": "0001-01-01T00:00:00",
"DiscontinuedDate": "0001-01-01T00:00:00",
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"ModelName": "HL Road Frame",
"Description": "Our lightest and best quality aluminum frame made from the newest alloy; it is welded and heat-treated for strength. Our innovative design results in maximum comfort and performance.",
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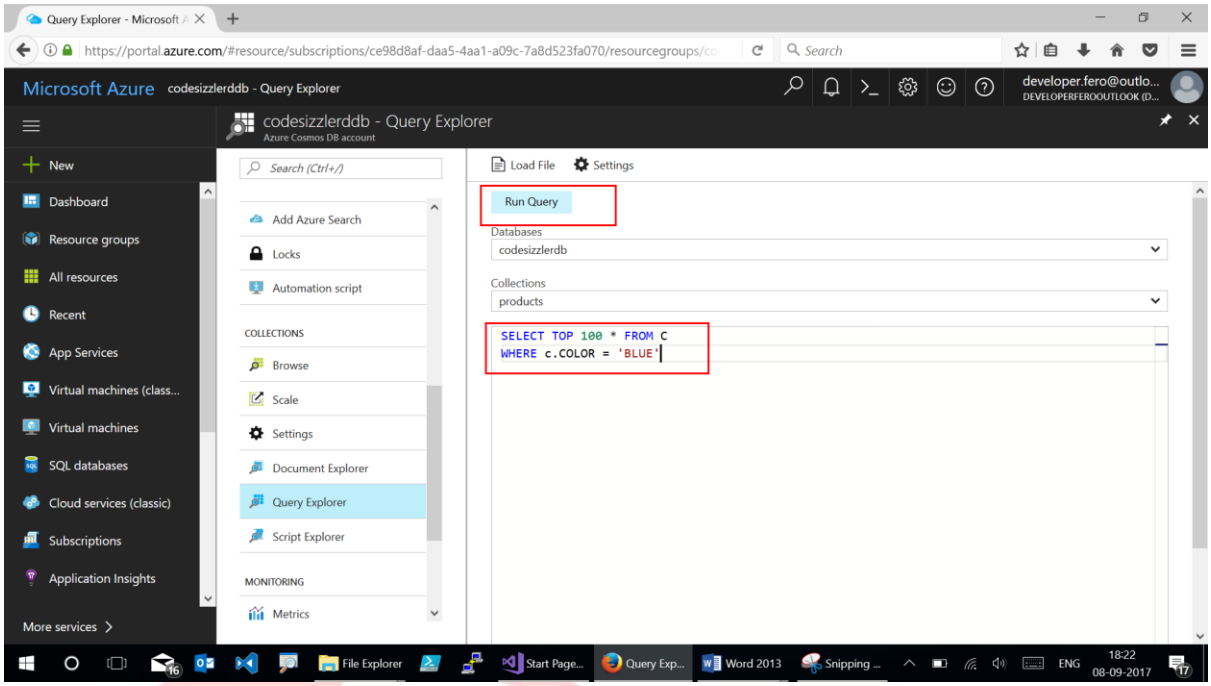
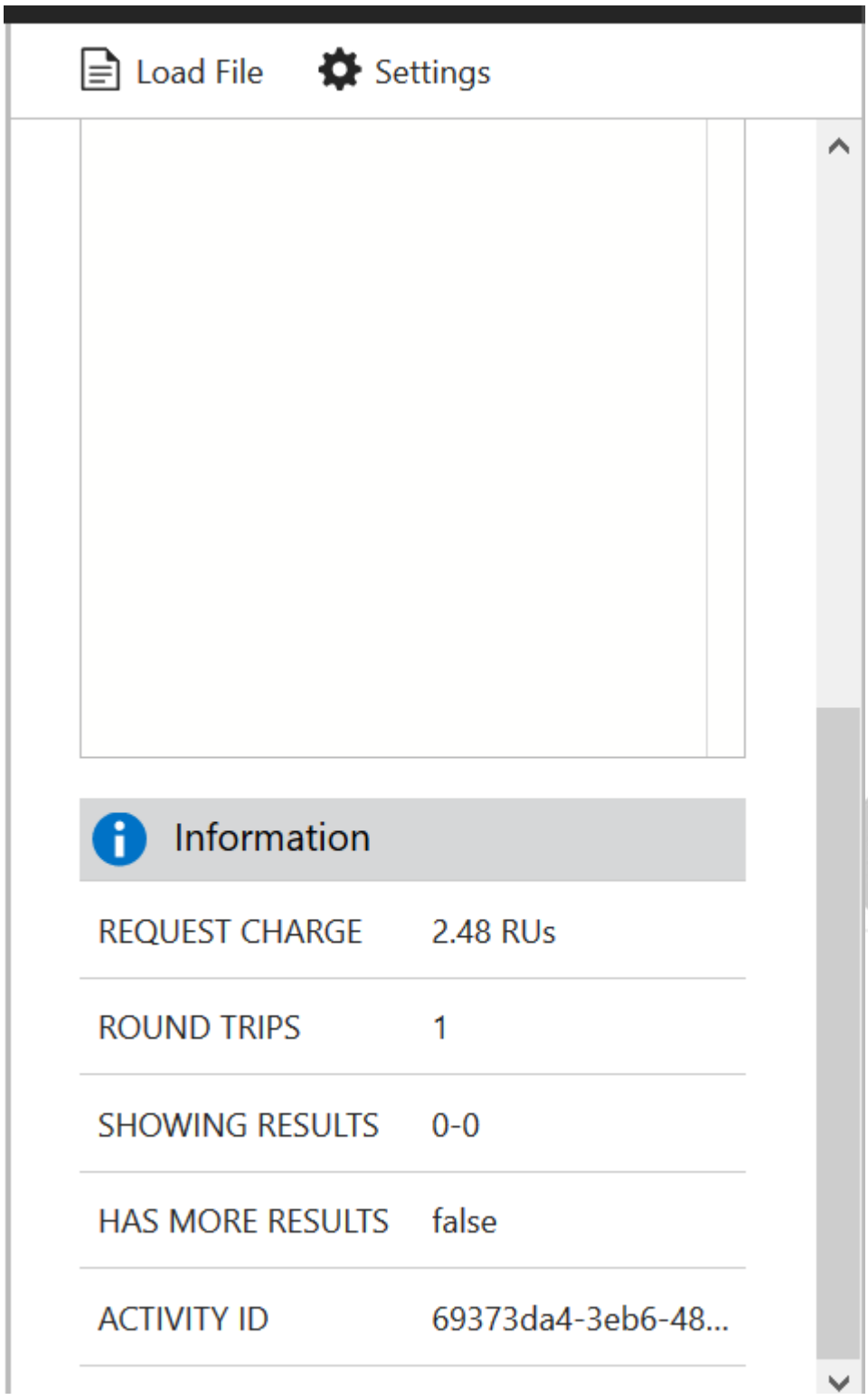


Results of the queries written will listed out as shown below:

Sample query:

SELECT TOP 100 * FROM c

WHERE c.COLOR = 'BLUE'



Demo Summary –

Here we are done with Azure Cosmos DB of Document DB in which we have created the collection ID, database, uploading the JSON files and writing queries on it.