Frank Asto DS 280 Project – Journal

	Step 1 – Open Azure							Notes			
 ← → C ŵ ♦ New Tab ♦ Getting State ■ Microsoft Azu 	arted 📦 New Tab re 💿 🔎) https://portal.azu ⊕ Google Earth G Search resources, se	re.com/#home STREET VIEW 🔇 H ervices, and docs ((ome Microsoft 365 5+/)			☆ ⊒ ¢ ¹ ⊗	୍ ଡ ନ୍ୟୁ	ப் இ பி நீ Other Bool fasto@stumail.jccc.ed онизом соимту соммиилт	E kmarks	This is the webpage: <u>https://portal.azure.com/#home</u> I sign in to the Azure portal with my JCCC email account.
Create a resource Resources	Education	Subscriptions	Virtual machines	Quickstart Center	Azure Al services	Kubernetes services	O App Services	Storage accounts			
Name				Туре				Last Viewed			
📍 Azure sul	bscription 1			Subscrip	tion			2 weeks ago			
↑ Azure for See all	r Students			Subscrip	tion			2 weeks ago			
Navigate	iptions	(index) R	esource groups		All resourc	:es	<mark>∠'lı</mark> c	ashboard			

Step 2 – Create a Resource Group	Notes
E C Search resources, services, and docs (G+/)	I click on the Resource groups icon at the bottom of the page. Then I click on the +Create button.
Azure services	
+Image: Subscription sImage: Sub	
Navigate	
🕆 Subscriptions 😥 Resource groups 🔛 All resources 🖾 Dashboard	
E C R fasto@stumail.jccc.edu Johnson country communit	
Home > Resource groups x Johnson County Community College (jccc.edu) X	
+ Create 🐯 Manage view 🗸 🖔 Refresh 🞍 Export to CSV 😚 Open query 🛛 🖉 Assign tags	
Filter for any field Subscription equals all Location equals all +	
Showing 0 to 0 of 0 records.	
Name ↑↓ Subscription ↑↓ Location ↑↓	
No resource groups to display	
Try changing or clearing your filters.	

Step 2 – Create a Resource Group - continue							Notes
 Microsoft Azure Home > Resource groups > Create a resource group Basics Tags Review + create Resource group - A container that holds resources for the solution, or only those allocate resources to resource groups base Project details Subscription * ① Resource group * ① 	 Search resources, services, and docs (G+/) main and main a	esource group can include all the p. You decide how you want to organization. Learn more		9	되다. fasto@stumail.jcc јониsои соииту сомм	x	I choose my subscription: Azure for Students. I name my resource group. I choose my region: (US) East US. Then I click Next: Tags. I name it Assignment in Name. I name it DS280 Project in Value. Then I click Next.
Resource details Region * i	(US) East US	~					
= Microsoft Azure 📀	$ \mathcal{P} $ Search resources, services, and d	ocs (G+/)	D. 🗘 🔅	জ হি	fasto@stumail.jccc. јониsои соииту сомми	.edu 🙆	
Home > Resource groups >							
Create a resource g	roup					×	
Apply tags to your Azure resources Tag names are case-insensitive and	to logically organize them by categorie tag values are case-sensitive. Learn me	es. A tag consists of a key (name ore 🖸) and a value.				
Name 🗊	Value 🛈	Resource					
Assignment	: DS280 Project	Resource group	Î				
		Kesource group					

Step 2 – Create a Resource Gro	up – continue	Notes		
■ Microsoft Az	ССС ФО СССССССССССССССССССССССССССССССС	Sto@stumail.jccc.edu I wait until the validation passes. Then I click on the Create button. It takes me back to the Resource Groups page. Now I can see the resource group that I created at the bottom.		
Validation passed.				
Basics Tags Review + create				
Basics				
Subscription Azure for Students				
Resource group ResourceGroupDS280				
Region Lator				
Tags				
Assignment DS280 Project				
■ Microsoft Azure ⑦ P Search resources, services, and docs (G+/)	ि 🗘 🕸 🔿 🕅	fasto@stumail.jccc.edu		
Home >				
Resource groups 🖈 … Johnson County Community College (jccc.edu)		×		
🕂 Create Manage view 🗸 🕐 Refresh 🞍 Export to CSV 🛛 Preserver Preserv	Assign tags			
Filter for any field Subscription equals all Location equals all X	₽ Add filter			
Showing 1 to 1 of 1 records.	No grouping V	r		
□ Name ↑↓	Subscription \uparrow_{\downarrow} Location \uparrow_{\downarrow}			
ResourceGroupDS280	Azure for Students East US			

Step 3 – Create a Storage Account						Notes
■ Microsoft Azure Azure service	 Search resources, ser es Resource groups 	vices, and docs (G+/)	Quickstart Azure Al Center services	C 🐼 🕐 🧩 🧩	fasto@stumail.jccc.edu	I click on the Create a resource icon. Then I search for "storage account." I choose the first storage account option and click Create.
Recent Favo	prite					
Name		Туре		Last Viewed		
📍 Azure subsc	cription 1	Subscription	n	2 weeks ago		
Azure for St See all	tudents	Subscription	n	2 weeks ago		
Private Marketplace Private Offer Management	 storage account Azure services only 	Publisher name : A Operating System	III × Product Type : All × : All × Pricing : All ×	Publisher Type : All 🗙		
My Marketplace	Showing 1 to 20 of 197 results for 's	torage account'. <u>Clear search</u>			🔡 Tile view 🗸	
Favorites My solutions Recently created Private plans	Storage account Microsoft	Storage Account Using ARM Template FortuneCloud LLC	Storage task - Azure Storage Actions Microsoft	Azure Storage Mover Microsoft		
Categories	Azure Service Use Blobs, Tables, Queues, Files, and Data Lake Gen 2 for reliable, economical cloud storage.	Azure Application storage account arm template	Azure Service Perform common operations on millions of objects based on logical conditions using object properties	Azure Service Azure Storage Mover is a migrat service that migrates your on- premises file shares to Azure	on	
Storage (92) Compute (48) IT & Management Tools (42)	⊂	Price varies	for Blobs and Data Lake Storage Gen2. Create \checkmark \heartsuit	Storage Create ∨	\heartsuit	
Security (37)	1					

	Step 3 – Create a Storage Account – continue	Notes	
	Search resources, services, and docs (G+/)	न्त्र fasto@stumail.jccc.edu	I name my storage account. For Redundancy, I choose Locally-redundant storage (LRS).
Home > Create a resource > Market	place >		I don't modify anything else.
Create a storage acco	unt …	×	I click Next. I keep the default settings for: - Advanced
Basics Advanced Network Azure Storage is a Microsoft-managed redundant. Azure Storage includes Azu Azure Tables. The cost of your storage	king Data protection Encryption Tags Review + create I service providing cloud storage that is highly available, secure, durable, scalable, and re Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and account depends on the usage and the options you choose below. Learn more about		 Networking Data protection Encryption Tags
Azure storage accounts 🖻			
Select the subscription in which to crea manage your storage account together	te the new storage account. Choose a new or existing resource group to organize and r with other resources.		
Subscription *	Azure for Students \checkmark		
Resource group *	ResourceGroupDS280 V Create new		
Instance details			
Storage account name * (i)	storage1		
Region * 🗊	(US) East US V Deploy to an Azure Extended Zone		
Performance * (i)	Standard: Recommended for most scenarios (general-purpose v2 account)		
	Premium: Recommended for scenarios that require low latency.		
Redundancy * 🛈	Locally-redundant storage (LRS)		

Ste	p 3 – Create a Storage Account – continue	Notes
Home > Create a resource > Market Create a storage acco	Search resources, services, and docs (G+/) L Search resources, services, and docs (G+/) JOHNSON COUNTY COMMUNIT	Then I click the Create button.
Basics Advanced Network	ng Data protection Encryption Tags Review + create	
●View automation template		
Basics		
Subscription	Azure for Students	
Resource group	ResourceGroupDS280	
Location	East US	
Storage account name	storagefrankds280	
Performance	Standard	
Replication	Locally-redundant storage (LRS)	
Advanced		
Enable hierarchical namespace	Disabled	
Enable SFTP	Disabled	
Enable network file system v3	Disabled	
Allow cross-tenant replication	Disabled	
Access tier	Hot	
Enable large file shares	Enabled	
Security		
Secure transfer	Enabled	
Blob anonymous access	Disabled	
Allow storage account key access	Enabled	
Default to Microsoft Entra authorization the Azure portal	in Disabled	
Minimum TLS version	Version 1.2	
Permitted scope for copy operations (preview)	From any storage account	
Networking		
Network connectivity	Public endpoint (all networks)	
Default routing tier	Microsoft network routing	
Data protection		
Previous Next Creat	e R ² Give feedback	



	Step	Notes			
	${\cal P}$ Search resources, services, and doce	; (G+/)	► ¢ ©	त्र fasto@stumail.jccc.edu	I go to Resource groups.
Home > Resource groups > ResourceGr	oupDS280 >				I click on my storage account
storagefrankds280	\$ \$ ··· \$			×	On the left side, I click on Containers.
<mark>∕P \$earch</mark> ◇ ≪	🗍 Upload 🚉 Open in Explorer 🗎	Delete $ ightarrow$ Move \checkmark $ ightarrow$ Refresh	🧕 Open in mobile 🛛 CLI / PS 🔗 Feedbac	ζ	
Overview	∧ Essentials			JSON View	
Activity log	Resource group (: <u>ResourceGroupDS2</u>	<u>80</u>	Performance : Standard		
Tags	Location : eastus		Replication : Locally-redundant stor	age (LRS)	
🗙 Diagnose and solve problems	Subscription (move) : <u>Azure for Students</u>		Account kind : StorageV2 (general po	irpose v2)	
⁸ ∕₂ Access Control (IAM)	Subscription ID : a22b8089-cdf6-420	0-af45-0904a03f4997	Provisioning state : Succeeded		
💕 Data migration	Disk state : Available		Created : 7/18/2024, 7:47:18 PM		
🗲 Events	Tags (<u>edit</u>) : Assignment : ds2	80			
🔚 Storage browser	Properties Monitoring Canabiliti	es (7) Recommendations (0) 1	Tutorials Tools + SDKs		
🚔 Storage Mover	Capabiliti				
∨ Data storage	Blob service		🔒 Security		
Containers	Hierarchical namespace	Disabled	Require secure transfer for REST API	Enabled	
🛋 File shares	Default access tier	Hot	operations		
Queues	Blob anonymous access	Disabled	Storage account key access	Enabled	
Tables	Blob soft delete	Enabled (7 days)	Infractructure encryption	Version 1.2	
	Container soft delete	Enabled (7 days)	initiastructure encryption	Disabled	
	Versioning	Disabled	🧟 Networking		
> Data management	Change feed	Disabled	Allow access from	All networks	
> Settings	NFS v3	Disabled	Number of private endpoint connections	0	
> Monitoring	Allow cross-tenant replication	Disabled	Network routing	Microsoft network routing	
> Monitoring (classic)	Storage tasks assignments	None	Access for trusted Microsoft services	Yes	
Automation			Endpoint type	Standard	

Step 4 – Upload the JSON F	Notes	
■ Microsoft Azure	ы 🖓 🎯 🕐 fasto@stumail.jccc.edu 🧕 јонкоок соимту сомминіт	I click on the + Container icon. I give it a name on the right side.
Home > Resource groups > ResourceGroupDS280 > storagefrankds280 storagefrankds280 Containers ☆ ☆ …	New container \times	Then I click the Create button. Now I have created a container.
Storage account	Refresh Delete Name * containerds280	I Click on my container.
Overview Search containers by prefix Activity log	Anonymous access level ① Private (no anonymous access)	
Tags Name Last	modified	
X Diagnose and solve problems \$logs 7/18, % Access Control (IAM) \$	3/2024, 7:47:38 PM	
	✓ Advanced	
 Events Storage browser 		
Storage Mover		
Containers		
File shares		
Tables		
 > Security + networking > Data management 		
> Settings		
 Monitoring Monitoring (classic) 		
> Automation		
> Help		
	Give feedback &	

	Notes		
 Microsoft Azure Upgrad Home > storagefrankds280 Containers Containerds280 Container Search • « Overview Diagnose and solve problems Access Control (IAM) Settings 	Step 4 – Upload the JSON F de P Search resources, services, and docs (G+/) Image: the second se	ile - continue	Notes I click the upload icon at the top. On the right side, I click "Browse for files." Then I click the upload button. I have just uploaded the JSON file into my container, which is in my storage account, which is in my resource group.

	Step 5 – Create a Cosmos D	В	
Azure Cosmos DB 🖈 … Iohnson County Community College (jccc.edu))	I click on the "+ Create a resou
+ Create 🏷 Restore 🗔 Manage view 🗸 🖒 Refresh	🛓 Export to CSV 🛛 😚 Open query 🕴 🧔 Assign tags		L click the Create Azure Cosmo
Filter for any field Subscription equals all Typ	pe equals all Resource group equals all X Location equals	all 🗙 🕂 🕁 Add filter	Next, I choose Azure Cosmos I
Showing 0 to 0 of 0 records.		No grouping ✓ ΞΞ List view	
Name ↑↓	Status $\uparrow \downarrow$ Subscription $\uparrow \downarrow$	Write region ↑↓ Read Region ↑↓	
Create a globally	No Azure Cosmos DB accounts to display distributed, multi-model, fully managed database using API of your choir 20k RU/s, for 30 days with unlimited renewal.	ce. Or try it for free, up to	
Create an Azure Cosmos DB account	Try now B		
Create an Azure Cosmos DB account Which API best suits your workload? Azure Cosmos DB is a fully managed NoSQL and relational database s to start, select the API to create a new account. The API selection canno Azure Cosmos DB for NoSQL Azure Cosmos DB's core, or native API for working with documents. Supports fast, flexible development with familiar	Try now B ³ service for building scalable, high performance applications. Learn more of be changed after account creation. Azure Cosmos DB for PostgreSQL Fully-managed relational database service for PostgreSQL with distributed query execution, powered by the Citus open	> Azure Cosmos DB for MongoDB Fully managed database service for apps written for MongoDB. Recommended if you have existing MongoDB	
Create an Azure Cosmos DB account Which API best suits your workload? Azure Cosmos DB is a fully managed NoSQL and relational database so to start, select the API to create a new account. The API selection canno Azure Cosmos DB for NoSQL Azure Cosmos DB's core, or native API for working with documents. Supports fast, flexible development with familiar SQL query language and client libraries for .NET, JavaScript, Python, and Java.	Try now ₽ [®] service for building scalable, high performance applications. Learn more of be changed after account creation. Azure Cosmos DB for PostgreSQL Fully-managed relational database service for PostgreSQL with distributed query execution, powered by the Citus open source extension. Build new apps on single or multi-node clusters—with support for JSONB, geospatial, rich indexing, and high-performance scale-out.	> Azure Cosmos DB for MongoDB Fully managed database service for apps written for MongoDB, Recommended if you have existing MongoDB workloads that you plan to migrate to Azure Cosmos DB.	
Create an Azure Cosmos DB account Which API best suits your workload? Azure Cosmos DB is a fully managed NoSQL and relational database so to start, select the API to create a new account. The API selection canno Azure Cosmos DB for NoSQL Azure Cosmos DB's core, or native API for working with documents. Supports fast, flexible development with familiar SQL query language and client libraries for .NET, JavaScript, Python, and Java. Create Learn more	Try now B [*] service for building scalable, high performance applications. Learn more to be changed after account creation. Acure Cosmos DB for PostgreSQL With distributed query execution, powered by the Citus open source extension. Build new apps on single or multi-node clusters—with support for JSONB, geospatial, rich indexing, and high-performance scale-out. Create Learn more	> Azure Cosmos DB for MongoDB Fully managed database service for apps written for MongoDB. Recommended if you have existing MongoDB workloads that you plan to migrate to Azure Cosmos DB. Create Learn more	
Create an Azure Cosmos DB account Which API best suits your workload? Azure Cosmos DB is a fully managed NoSQL and relational database s to start, select the API to create a new account. The API selection canno Azure Cosmos DB for NoSQL Azure Cosmos DB's core, or native API for working with documents. Supports fast, flexible development with familiar SQL query language and client libraries for .NET, JavaScript, Python, and Java. Create Learn more Azure Cosmos DB for Apache Cassandra	Try now B Try now B service for building scalable, high performance applications. Learn more of be changed after account creation. Azure Cosmos DB for PostgreSQL with distributed query execution, powered by the Citus open source extension. Build new apps on single or multi-node clusters—with support for JSONB, geospatial, rich indexing, and high-performance scale-out. Create Learn more Azure Cosmos DB for Table	Azure Cosmos DB for MongoDB Fully managed database service for apps written for MongoDB. Recommended if you have existing MongoDB workloads that you plan to migrate to Azure Cosmos DB. Create Learn more Azure Cosmos DB for Apache Gremlin	
Create an Azure Cosmos DB account Which API best suits your workload? Azure Cosmos DB is a fully managed NoSQL and relational database so to start, select the API to create a new account. The API selection cannel Azure Cosmos DB for NoSQL Azure Cosmos DB's core, or native API for working with documents. Supports fast, flexible development with familiar SQL query language and client libraries for .NET, JavaScript, Python, and Java. Create Learn more Azure Cosmos DB for Apache Cassandra Muly managed Cassandra database service for apps written for Apache Cassandra. Recommended if you have existing Cassandra workloads that you plan to migrate to Azure Cosmos DB.	Try now B [*] Try now B [*] service for building scalable, high performance applications. Learn more to be changed after account creation. Later account creation Aure Cosmos DB for PostgreSQL Muly-managed relational database service for PostgreSQL with distributed query execution, powered by the Citus open source extension. Build new apps on single or multi-node clusters—with support for JSONB, geospatial, rich indexing, and high-performance scale-out. Create Learn more Later more Muly managed database service for apps written for Azure Table storage. Recommended if you have existing Azure Table storage workloads that you plan to migrate to Azure Cosmos DB.	Azure Cosmos DB for MongoDB Fully managed database service for apps written for MongoDB. Recommended if you have existing MongoDB workloads that you plan to migrate to Azure Cosmos DB. Create Learn more Luly managed graph database service using the Gremlin Muly managed graph database service using the Gremlin Azure Cosmos DB for Apache Gremlin Fully managed graph database service using the Gremlin Create Learn more	

Notes

rce" icon at the top left.

DB account button.

B for No SQL and click Create.

	Step 5 – Create a Cosmos DB - continue	Notes
 Microsoft Azu Search Home > Azure Cosmos DB > Create Azure Cosmos DB > Basics Global distribution Network Azure Cosmos DB is a fully managed NoS with unlimited renewals. Go to production Project Details Select the subscription to manage deploy 	An resources, services, and docs (G+/)	I choose my subscription. I choose my resource group. I enter a name in Account Name. I select the default location. I choose Serverless for Capacity mode. I keep the default settings for: - Global distribution - Networking - Backup Policy - Encryption - Tags Then I click the Create button.
Subscription *	Azure for Students \vdots ResourceGroupDS280 \vdots Create new \vdots	
Instance Details Account Name * Configure availability zone settings for yo	cosmosfrankdb280 ✓	
Availability Zones () Location * ()	 Enable Disable (US) East US 2 EUAP Available locations are determined by your subscription's access and availability zone support (if that is enabled). If you don't see or cannot select your desired location, please open a support request for region access. Click here for more details on how to create a region access request 	
Capacity mode	O Provisioned throughput Serverless Learn more about capacity mode	



	Step 5 – Create a Cos	mos DB - continue	Notes
≡ Microsoft Azure 🕑	✓ Search resources, services, and docs (G+/)	E 🏥 இ 🤉 fasto@stumail.jccc.e	Then, I go back to my Cosmos DB account.
Home > cosmosfrankds280 Azure Cosmos DB account	<i>☆</i> ☆ …		×
 ✓ Search ◇ « ✓ Overview 	+ Add Container 🕐 Refresh $ ightarrow$ Move \lor 🗹 Data Exp	plorer 📋 Delete Account 🔗 Feedback	
 Activity log Access control (IAM) 	Query with Al using Microsoft Copilot for Azure in Cosmos DB! Ask y	your subscription admin to enable the preview today. <u>Learn more</u>	
 Tags X Diagnose and solve problems 	▲ Essentials Status : Online	JSON Read Locations : Central US	View
 Quick start Notifications Data Explorer Settings 	Resource group (move) : ResourceGroupDS280 Subscription (move) : Azure for Students Subscription ID : a22b8089-cdf6-4200-af45-0904a03f499 Backup policy : Periodic	Write Locations : Central US URI : https://cosmosfrankds280.documents.azure.com:443/ 197 Capacity mode : Serverless	
> Integrations > Containers	ID	Database	
 Monitoring Automation Help 	Items Monitoring Show data for last 1 hour 24 hours 7 days 30 days Requests ① No data to display	Total Http 2xx Http 400 Http 401 Http 403 Http 429 Http 5xx	

	Step 5 – Create a Cosmos DB - continue	Notes
Cosmosfrankds280 Date Azure Cosmos DB account Search Coverview Activity log Access control (IAM) Tags Nosc Diagnose and solve problems DATE Quick start Notifications Data Explorer Settings 	ta Explorer * … Query with Al using Microsoft Copilot for Azure in Cosmos DBI Ask your subscription admin to enable the preview today. Learn more Enroll Whome New Container To prevent queries from using excessive RUs. Data Explorer has a 5,000 RU default limit. To modify or remove the limit, go to the Settings cog on the right and RU Inreshole ⁺ . Learn More Thome X Volcano1D5280 Welconce to Azure Conserved Data Explorer has a 5,000 RU default limit. To modify or remove the limit, go to the Settings cog on the right and Welconce to Azure Conserved Data Explorer has a 5,000 RU default limit. To modify or remove the limit, go to the Settings cog on the right and Welconce to Azure Conserved Data Biologily distributed, multi-model database service for any scale	I click on "New Container" and select "New Database." I name my new database. Then I click on my new database and choose "New Container."
 Integrations Containers Monitoring Automation Help 	Image: Second of a control of any second of a control of	
Search O Cuery: Query: Activity log	y with Al using Microsoft Copilot for Azure in Cosmos DB! Ask your subscription admin to enable the preview today. Learn more Enroll	
Recess control (IAM) Image: Formation of the problems Tags NOSQL A Diagnose and solve problems DATA Quick start DATA Notifications Image: Transmitter of the problems Data Explorer Image: Transmitter of the problems Settings Integrations Containers Monitoring Automation Help	one Image: Container	











 Constant Number of Edeb Enriquest Content Type Constant Same of Edeb Enriquest Cons	Step 6 – Crea	Notes			
Set blob content (V2) : Parameters Settings Code View Testing About Storage Account Name Or Blab Endpoint* Use connection settings(storagefankds280) Blob* /containerds280/VolcanoDatajson Advanced parameters Showing 1 of 1 Iffer Content Type Ves © Connected to connectionblob. Change connection (Change connection	JOHNSON COUNTY. Power Automate COMMUNITY COLLEGE County	Search	🚊 🔂 Save 😵 Flow checker	Environments Johnson County Cc FA	I click on the "+" to add an action. I search for Blob Storage and select "Get blob content (V2)." I choose my storage account.
	 ← cloudflow2 ✓ Get blob content (V2) Parameters Settings Code View Testing About Storage Account Name Or Blob Endpoint * Use connection settings(storagefrankds280) Blob *	Send feedback <td>Save V Flow checker A Tes</td> <td>A New designer</td> <td>I choose my storage account. I select the data inside my container. Then I click "Save" at the top.</td>	Save V Flow checker A Tes	A New designer	I choose my storage account. I select the data inside my container. Then I click "Save" at the top.

Step 6 – Cr	eate a Power Automate Fl	low - continue		Notes
JOHNSON COUNTY. Power Automa COMMUNITY COLLEGE Power Automa	te 🔎 Search	B care Ue time de des	vironments hnson County Cc (FA)	I click on the "+" to add an action. I search for "variable" and choose "Initialize variable."
Initialize variable Parameters Settings Type * String Value Image: Parameters String Value File Content×		Manually trigger flow Get blob content	Image: state stat	I give it a name. I set the Type to "String." I set the Value to "File Content." Then I click "Save" at the top.

I Click on the "+" to add an action. Isearch for "Data Operation" and choose "Parse JSON." I click on the "+" to add an action. Isearch for "Data Operation" and choose "Parse JSON." In Content, I select "joinString." I click on the "+" to add an action. Isearch for "Data Operation" and choose "Parse JSON." I click on the "+" to add an action. Isearch for "Data Operation" and choose "Parse JSON." In Content, I select "joinString." I click on the "+" to add an action. I click on the "+" to add an action. I click on the "+" to add an action. I click on the "+" to add an action. I click on the "+" to add an action. I click on the "+" to add an action. I click on the "+" to add an action.	Step 6 – Create a Power	Automate Flow - continue	Notes
of my JSON data. Parameters Settings Code View About Content** Content*** Content**********************************	JOHNSON COUNTY. Power Automate See COMMUNITY COLLEGE Power Automate Seed feedback	arch	I click on the "+" to add an action. I search for "Data Operation" and choose "Parse JSON." In Content, I select "jsonString." I click on "Use sample payload to generate schema" and add some
City	Parse JSON Parameters Settings Content* Setting* Setting* Schema* Use sample payload to generate schema	it is in the same of now checker is reactive designer in the designer is in the designer	of my JSON data. I click "Done." In the Schema, I modify "Elevation" to: "Elevation": { "integer", "null"] }, I click "Save" at the top.

	Step 6 – Create a Po			Notes			
: JOHNSON COUNTY Power	Automate ρ Search	(Page 1)		Environments B Johnson Co			click on the "+" to add an action. search for "Cosmos DB" and choose "Create or update
cloudflow2	& Send feedback	Copilot	🔚 Save 🈗 Flow	checker 🛆 Test New de	signer	C	document (V3)."
⊘ Your flow is ready to go. We recommend you test it.					×		select my Cosmos account.
Create or update document (V3)		: < .		Manually trigger a flow			select my Cosmos container "Collection ID." choose "Body Item" in Body.
Parameters Settings Code View Testing	About		· · · · · ·		· · · · · ·	1	Then I click "Save" at the top.
Azure Cosmos DB Account Name *			1000 C	<u></u>			
Use connection settings(cosmosfrankds280)		✓		Get blob content (V2)			
Database ID *			11111 -	ତ			
VolcanoDS280PowerAutomate		<u> </u>					
Collection ID *		·					
VolcanoPowerAutomate		<u> </u>		(x) Initialize variable			
Body *		fx					
Advanced parameters			1 1 1 1 1 1 L	Parse JSON			
Showing 0 of 9	Show all Cl	ear all					
⊘ Connected to connectionCosmosdb. Change connection	sction			For each For each Create or update document (V3) Create or			

Step 6 – Create a Powe	Notes			
JOHNSON COUNTY. Power Automate Search COMMUNITY COLLEGE Coudflow2	🖗 Send feedback 🖉 Copilot	Environments Johnson County Comm Run flow	? FA	I click "Test" at the top. I select "Manually" at the top. I click the Test button at the bottom.
 Vour flow is ready to go. We recommend you test it. Create or update document (V3) Parameters Settings Code View Testing About 	Manually trigger a flow	cloudflow2 Owner: Frank Asto (Student) Sign in * This flow uses the following apps. A gree you're ready to go.	en check means	I click "Continue." I click on "Run flow."
Azure Cosmos DB Account Name * AccountNameFromSettings Database ID * VolcanoDS280PowerAutomate X Collection ID * VolcanoPowerAutomate X Body * Current item × Advanced parameters Showing 0 of 9 X Show all Clear all	Get blob content (V2)	Azure Blob StorageAzure Cosmos DB	 ○ ··· ○ ··· 	
Connected to connectionCosmosdb. Change connection	For each	Continue		



Step 6 – Create a Power Automate Flow - continue	Notes
Outcome: Sector: Sector:	I see the JSON file in my container in Cosmos DB. I check my database.

	Step 6 – Create a Power Automate Flow	Notes		
 Microsoft Azure Home > cosmosfrankds280 Cosmosfrankds280 Data Azure Cosmos DB account Cosmos DB account Cosmos DB account	Search resources, services, and docs (G+/) a Explorer * C Execute Query Save Query Download Query View ~ To prevent queries from using excessive RUs, Data Explorer has a 5,000 RU default lin "RU Threshold". Learn More Home VolcaItems VolcaQuer; × SELECT VALUE SELECT VALUE SELECT VALUE SELECT VALUE SELECT VALUE Tems i SELECT VALUE SELECT VALUE	▶ ♀ ⑧ ⑦ 戸 ₃	Second County Communit	I click on the "New SQL Query" icon at the top. I write some code to test the count of the database. The count returns 1576, which is correct.
	Results Query Stats 1 - 1 [1576]			

Step 7 – Use Power BI to connect to Cosmos DB and create a data visualization

Notes



I open Power BI Desktop. I sign in to my account. I click "Get data" from another source. I search for "cosmos." I click on "Azure Cosmos DB v2 (Beta)." I click "Connect." Then I click "Continue."



Step 7 – Use Power BI to conr	nect to Co	smos DB an	d create	a d	ata visualiz	ation - con	tinue	Notes
Navigator							□ ×	I choose the Cosmos data from Power Automate. I click Load.
٩	Volcano	PowerAutom	ate				Ce I	
Display Options 🔻 🗋	A2	AC ASC	CID		Country	DT ESC		
https://cosmosfrankds280.documents.azure.co	null	null	null	null	Japan	null	nul	
▷ 🧧 Volcano1DS280	null	null	null	null	Chile	null	nul	
✓ VolcanoDS280PowerAutomate [1]	null	null	null	null	Guatemala	null	nul	
VolcanoPowerAutomate [1]	null	null	null	null	Turkey	null	nul	
	null	null	null	null	United States	nuii	nui	
	null	null	null	null	Ethiopia	null	nul	
	<						>	
					Load Trans	form Data	ancel	



Step 8 – Use Python to connect to Cosmos DB and create a data visualization - continue	Notes
<pre># Check the first few rows of the dataframe print(df.head())</pre>	Then I print the first 5 rows of the dataframe to check.
<pre># Count the number of volcanoes per country country_counts = df['Country'].value_counts()</pre>	<pre># Check the first few rows of the dataframe print(df.head())</pre>
<pre># Select the top 20 countries top_20_countries = country_counts.head(20) # Plot the horizontal bar chart plt.figure(figsize=(12, 8)) sns.barplot(x=top_20_countries.values, y=top_20_countries.index, palette='viridis') plt.title('Top 20 Countries with the Most Volcanoes') plt.xlabel('Number of Volcanoes')</pre>	Then I create a simple data visualization using the libraries. I count the volcanoes by each country. I display the top 20 countries with the most volcanoes. I assign the size, x and y axes, and colors of the bars. I add a title, x-axis title, and y-axis title. Finally, I display the data visualization using the `plt.show()` function.
plt.ylabel('Country') plt.show()	<pre># Count the number of volcanoes per country country_counts = df['Country'].value_counts()</pre>
<pre>[5 rows x 43 columns] PS C:\Users\Frank\Desktop\COURSES\DS 210\Python> python -u "c:\Users\Frank \Desktop\COURSES\DS 210\Python\cosmosanalysis.py" Volcano Name Country Region CID DT PK 0 Abu Japan Honshu-Japan NaN NaN NaN</pre>	<pre># Select the top 20 countries top_20_countries = country_counts.head(20) # Plot the horizontal bar chart plt.figure(figsize=(12, 8)) sns.barplot(x=top_20_countries.values, y=top_20_countries.index,</pre>
1AcamarachiChileChile-NNaNNaN2AcatenangoGuatemalaGuatemalaNaNNaN3Acigol-NevsehirTurkeyTurkeyNaNNaN4AdamsUnitedStatesUS-WashingtonNaNNaN	<pre>palette='viridis') plt.title('Top 20 Countries with the Most Volcanoes') plt.xlabel('Number of Volcanoes') plt.ylabel('Country') plt.show()</pre>
[5 rows x 43 columns]	

