JOURNEY SCRAPBOOK

Foundational Training Week (18th August- 28th August)

Anushka Dhir

Batch-6

DAY-1

Business Analysis and Agile

- Introduction to Business Analysis
- Functional and Non-functional requirements
- Requirements Elicitation
- Requirements Modelling
- Requirement Management Techniques
- Requirements Traceability
- SDLC Model
- Waterfall Model
- Agile Method
- Scrum Events
- Kanban Board

- ACTIVITY – To roleplay the various phases involved in SCRUM

- ASSIGNMENT – Requirement Traceability for given scenario

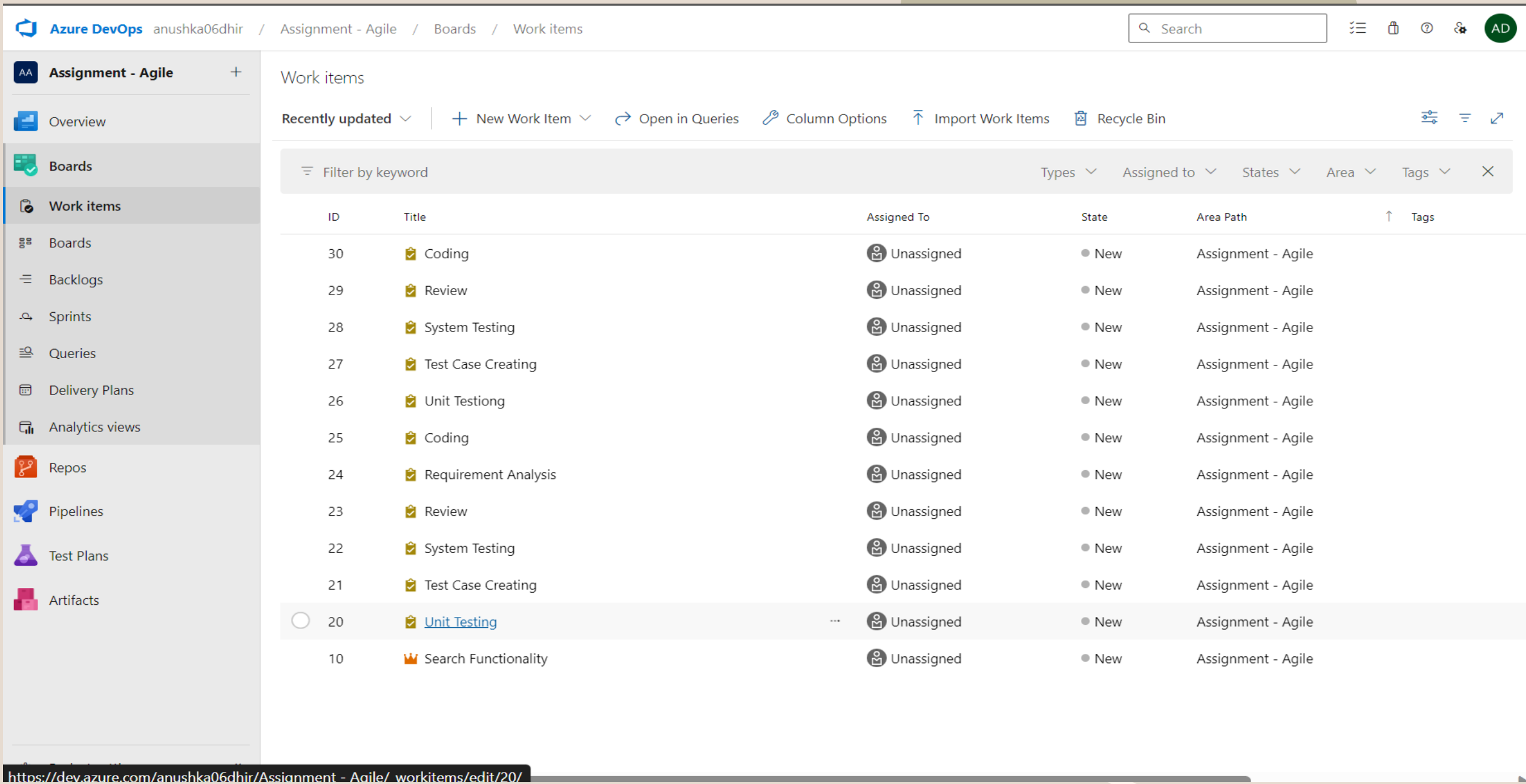
Requirement Traceability for setting up add to cart option for an application

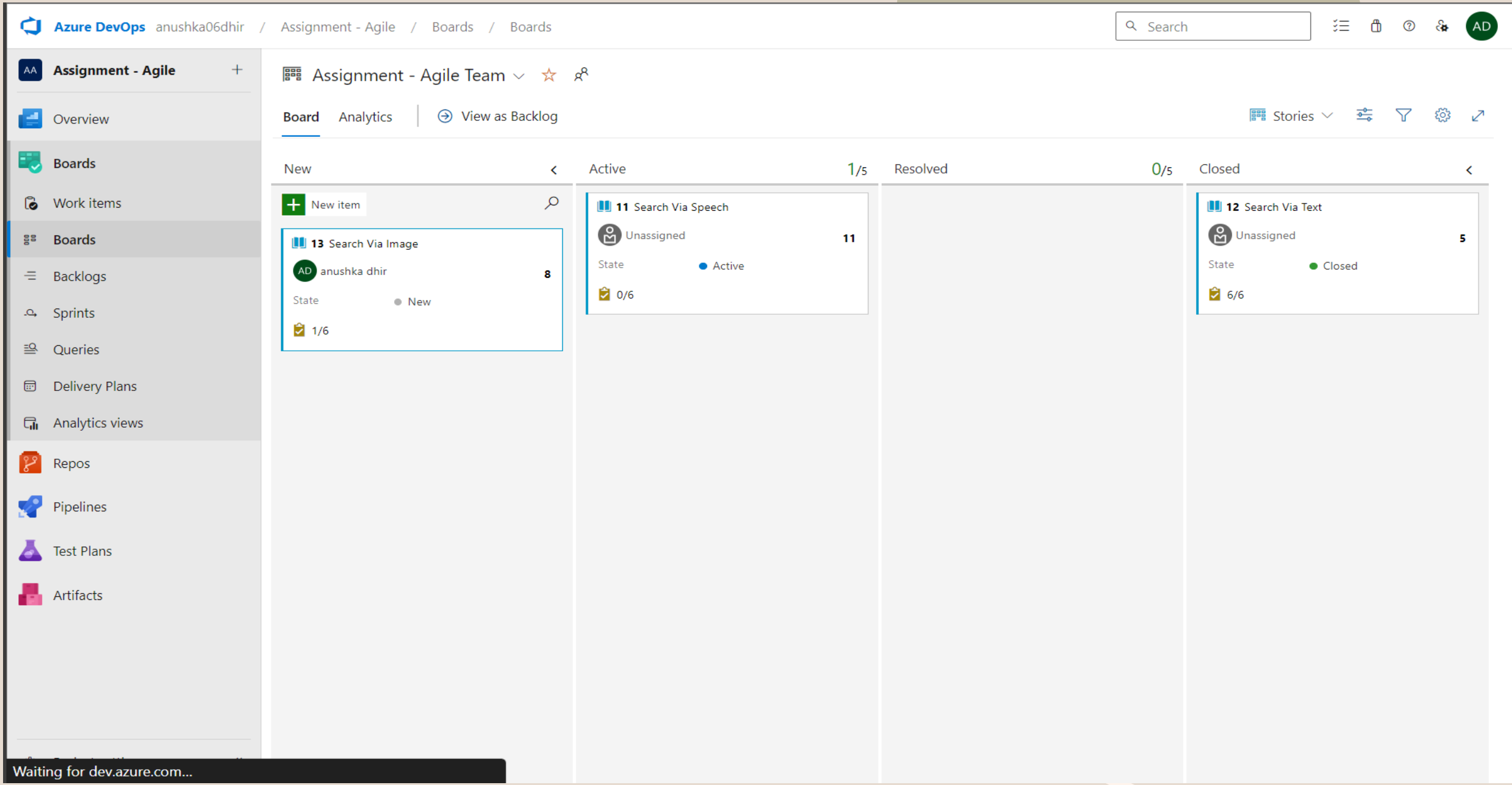
Sno.	Req ID	Req Desc	User Story	TC ID	TC Desc	Test Design	Test Designer	UAT Test Req?	Test Execution			Defects?	Defect ID	Defect Status	Req Coverage Status
									Test Env	UAT Env	Prod Env				
1	Req01	Search for a product	Enter item name in the search bar and display the products in a dropdown format according to the given input.	TC01	User searched a product but its not available	Completed	XYZ	No	Passed	No Run	No Run	None	No	NA	Partial
2				TC02	User searched a product and got a valid dropdown list	Completed	ABC	No	Passed	No Run	No Run	None	No	NA	Partial
3				TC03	User searched a product got the partial keywords matched	Completed	DEF	Yes	Passed	Passed	No Run	Yes	DFCT001	Test OK	Partial
4				TC04	User doesn't type anything and pressed enter	Completed	DEF	Yes	Passed	Passed	No Run	Yes	DFCT001	Test OK	Partial
1			User gives the item name in the search bar and hit the enter button.	TC01	User searched a product but its not available	Completed	XYZ	No	Passed	No Run	No Run	None	No	NA	Partial
2				TC02	User searched a product and got a valid dropdown list	Completed	ABC	No	Passed	No Run	No Run	None	No	NA	Partial
3				TC03	User searched a product got the partial keywords matched	Completed	DEF	Yes	Passed	Passed	No Run	Yes	DFCT001	Test OK	Partial
4				TC04	User doesn't type anything and pressed enter	Completed	DEF	Yes	Passed	Passed	No Run	Yes	DFCT001	Test OK	Partial

DAY-2

Business Analysis and Agile

- Discussion On Agile Methodology
  - Scrum
  - Kanban
- Comparison Between KANBAN And SCRUM
- Values And Principles Of Agile Methodology
- Discussion Of Document Of Ready (Dor) And Document Of Done (Dod)
- Estimation In Agile:
  - Scope
  - Time
  - Cost
- Various Charts Used:
  - Burndown Chart
  - Burnup Chart
  - Velocity Chart
- ACTIVITY – To Roleplay The Various Phases Involved In SCRUM
  - Sprint Review
  - Sprint Retrospection
- ASSIGNMENT – Introduction To Azure Devops


Azure DevOps anushka06dhir / Assignment - Agile / Boards / Work items
Search
AD
Assignment - Agile
Overview
Boards
Work items
Boards
Backlogs
Sprints
Queries
Delivery Plans
Analytics views
Repos
Pipelines
Test Plans
Artifacts
Work items
Recently updated
New Work Item
Open in Queries
Column Options
Import Work Items
Recycle Bin
Filter by keyword
Types
Assigned to
States
Area
Tags
ID
Title
Assigned To
State
Area Path
Tags
30 Coding Unassigned New Assignment - Agile
29 Review Unassigned New Assignment - Agile
28 System Testing Unassigned New Assignment - Agile
27 Test Case Creating Unassigned New Assignment - Agile
26 Unit Testiong Unassigned New Assignment - Agile
25 Coding Unassigned New Assignment - Agile
24 Requirement Analysis Unassigned New Assignment - Agile
23 Review Unassigned New Assignment - Agile
22 System Testing Unassigned New Assignment - Agile
21 Test Case Creating Unassigned New Assignment - Agile
20 Unit Testing Unassigned New Assignment - Agile
10 Search Functionality Unassigned New Assignment - Agile
https://dev.azure.com/anushka06dhir/Assignment - Agile/_workitems/edit/20/


Azure DevOps anushka06dhir / Assignment - Agile / Boards / Boards
Search
AD
Assignment - Agile
Overview
Boards
Work items
Boards
Backlogs
Sprints
Queries
Delivery Plans
Analytics views
Repos
Pipelines
Test Plans
Artifacts
Assignment - Agile Team
Board
Analytics
View as Backlog
Stories
New
Active 1/5
Resolved 0/5
Closed
New item
13 Search Via Image
anushka dhir
8
State New
1/6
11 Search Via Speech
Unassigned
11
State Active
0/6
12 Search Via Text
Unassigned
5
State Closed
6/6
Waiting for dev.azure.com...

DAY-3

Database Management System

- Brief About Data And Information
- Introduction To Database And Database Management System
- Types Of Databases
- Discussion About ACID Property Of DBMS
- Introduction To The Various Operations Of SQL – DDL, DQL, DML, DCL And TCL
- Introduction To Normalization And It's Need
- Discussion About:
  - Functions – Group By, Order By
  - Joins And Its Types
  - Aggregate Functions
  - Sub Queries
- ASSIGNMENT – Hands On Experience With Postgre SQL

```
-----------+----------+----------+---------+---------+-----------------------
 postgres  | postgres | UTF8     | C.UTF-8 | C.UTF-8 |
 template0 | postgres | UTF8     | C.UTF-8 | C.UTF-8 | =c/postgres          +
           |          |          |         |         | postgres=CTc/postgres
 template1 | postgres | UTF8     | C.UTF-8 | C.UTF-8 | =c/postgres          +
           |          |          |         |         | postgres=CTc/postgres
 training  | postgres | UTF8     | C.UTF-8 | C.UTF-8 |
(4 rows)

training=# create table guest (gid int, mob bigint, email varchar(50), aadhaar bigint);
CREATE TABLE
training=# insert into guest values (1, 1234567890, 'abx@gmail.com', 23456123);
INSERT 0 1
training=# insert into guest values (2, 9876554322, 'abc@gmail.com', 23456345);
INSERT 0 1
training=# create table room (gid int, room_id int, days int);
CREATE TABLE
training=# insert into room values (1, 10, 4);
INSERT 0 1
training=# insert into room values (2, 15, 2);
INSERT 0 1
training=# select * from guest
training-# ;
 gid |    mob     |     email     | aadhaar
-----+------------+---------------+----------
   1 | 1234567890 | abx@gmail.com | 23456123
   2 | 9876554322 | abc@gmail.com | 23456345
(2 rows)

training=# select * from guest cross join room;
 gid |    mob     |     email     | aadhaar  | gid | room_id | days
-----+------------+---------------+----------+-----+---------+------
   1 | 1234567890 | abx@gmail.com | 23456123 |   1 |      10 |    4
   2 | 9876554322 | abc@gmail.com | 23456345 |   1 |      10 |    4
   1 | 1234567890 | abx@gmail.com | 23456123 |   2 |      15 |    2
   2 | 9876554322 | abc@gmail.com | 23456345 |   2 |      15 |    2
(4 rows)

training=# select * from guest inner join room on guest.gid = room.gid;
 gid |    mob     |     email     | aadhaar  | gid | room_id | days
-----+------------+---------------+----------+-----+---------+------
   1 | 1234567890 | abx@gmail.com | 23456123 |   1 |      10 |    4
   2 | 9876554322 | abc@gmail.com | 23456345 |   2 |      15 |    2
(2 rows)

training=#
```

```
training=# create table room (gid int, room_id int, days int);
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INSERT 0 1
training=# select * from guest
training-# ;
 gid |    mob     |     email     | aadhaar
-----+------------+---------------+----------
   1 | 1234567890 | abx@gmail.com | 23456123
   2 | 9876554322 | abc@gmail.com | 23456345
(2 rows)

training=# select * from guest cross join room;
 gid |    mob     |     email     | aadhaar  | gid | room_id | days
-----+------------+---------------+----------+-----+---------+------
   1 | 1234567890 | abx@gmail.com | 23456123 |   1 |      10 |    4
   2 | 9876554322 | abc@gmail.com | 23456345 |   1 |      10 |    4
   1 | 1234567890 | abx@gmail.com | 23456123 |   2 |      15 |    2
   2 | 9876554322 | abc@gmail.com | 23456345 |   2 |      15 |    2
(4 rows)

training=# select * from guest inner join room on guest.gid = room.gid;
 gid |    mob     |     email     | aadhaar  | gid | room_id | days
-----+------------+---------------+----------+-----+---------+------
   1 | 1234567890 | abx@gmail.com | 23456123 |   1 |      10 |    4
   2 | 9876554322 | abc@gmail.com | 23456345 |   2 |      15 |    2
(2 rows)

training=# insert into room values (1, 14, 7);
INSERT 0 1
training=# insert into room values (1, 4, 1);
INSERT 0 1
training=# insert into room values (2, 18, 1);
INSERT 0 1
training=# select count(gid), gid, room_id, days from room group by gid;
ERROR:  column "room.room_id" must appear in the GROUP BY clause or be used in an aggregate function
LINE 1: select count(gid), gid, room_id, days from room group by gid...
                           ^
training=# select count(room_id), gid from room group by gid;
 count | gid
-------+-----
     2 |   2
     3 |   1
(2 rows)

training=#
```

```
training=# \l
                                 List of databases
   Name    |  Owner   | Encoding | Collate |  Ctype  |   Access privileges
-----------+----------+----------+---------+---------+-----------------------
 postgres  | postgres | UTF8     | C.UTF-8 | C.UTF-8 |
 template0 | postgres | UTF8     | C.UTF-8 | C.UTF-8 | =c/postgres          +
           |          |          |         |         | postgres=CTc/postgres
 template1 | postgres | UTF8     | C.UTF-8 | C.UTF-8 | =c/postgres          +
           |          |          |         |         | postgres=CTc/postgres
 training  | postgres | UTF8     | C.UTF-8 | C.UTF-8 |
(4 rows)

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training=# insert into room values (1, 10, 4);
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INSERT 0 1
training=# select * from guest
training-# ;
 gid |    mob     |     email     | aadhaar
-----+------------+---------------+----------
   1 | 1234567890 | abx@gmail.com | 23456123
   2 | 9876554322 | abc@gmail.com | 23456345
(2 rows)

training=#
```

DAY-4

Testing

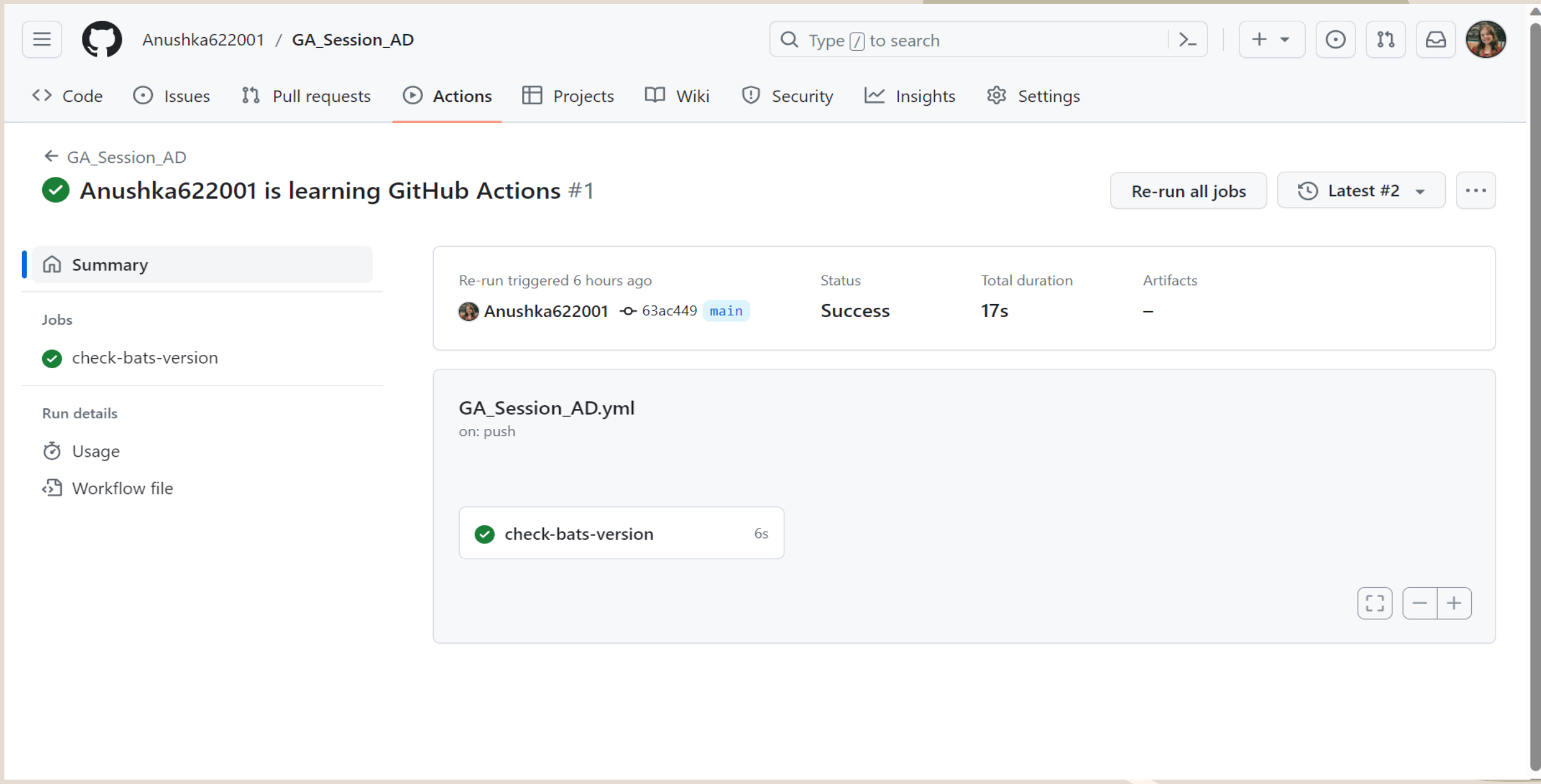
- Introduction To V-model
- Discussion About Various Types Of Environments
- Discussion On Types Of Testing:
  - Static
  - Dynamic
    - Functional
      - White Box
      - Black Box
    - Non- Functional
- Introduction To Software Test Life Cycle(STLC) And It's Various Phases
- Deliverables In The Various Phases Of STLC
- Discussion About Testing Triangle
- Various Approaches For Development
  - Test Driven Development (TDD)
  - Behavior Driven Development (BDD)
  - Domain Driven Development (DDD)
  - Acceptance Driven Development (ADD)
- Discussion About Test Case And Test Case Writing
- ASSIGNMENT – To Write Testcases For Testing The Login Functionality

Test Case Description	Pre-requisites	Test Case Id	Test Step	Test data	Expected results	Actual Results	Test result(pass/fail)
Test for valid user name and password	The user and password need to be existed in the system.i.e abc@yahoo.com,xyz	TC-01	User name and password are valid	abc@yahoo.com, xyz	User will be logged in	User logged in successfully	Pass
Test for invalid user name and password	The user and password need to be existed in the system.i.e abc@yahoo.com,xyz	TC-02	Username and password are invalid	uzq@yahoo.com,ysx	User is not able to login	User was not able to log in	Pass
Test for valid user name and invalid password	The user and password need to be existed in the system.i.e abc@yahoo.com,xyz	TC-03	Username is valid password is invalid	abc@yahoo.com, xqq	User is not able to login because password is wrong	User is not able to login	Pass
Test for invalid user name and valid password	The user and password need to be existed in the system.i.e abc@yahoo.com,xyz	Tc-04	Username is invalid password is valid	xyx@yahoo.com, xyz	User is not able to login because username is wrong	User is not able to login	Pass

DAY-5

DevOps & GitHub Actions

- Introduction To Devops
- Discussion On Principles Of Devops
- Discussion On Devops Lifecycle And It's Phases
- Introduction To The Various Devops Tools Depending On The Phase
- Introduction To Continuous Integration And Continuous Deployment (Ci/Cd)
- Introduction To Github Actions
- Discussion On The Various Components Of Github Action
    - Workflow
    - Event
    - Job
    - Action
    - Runner
- Assignment – To Setup A Github Action Workflow

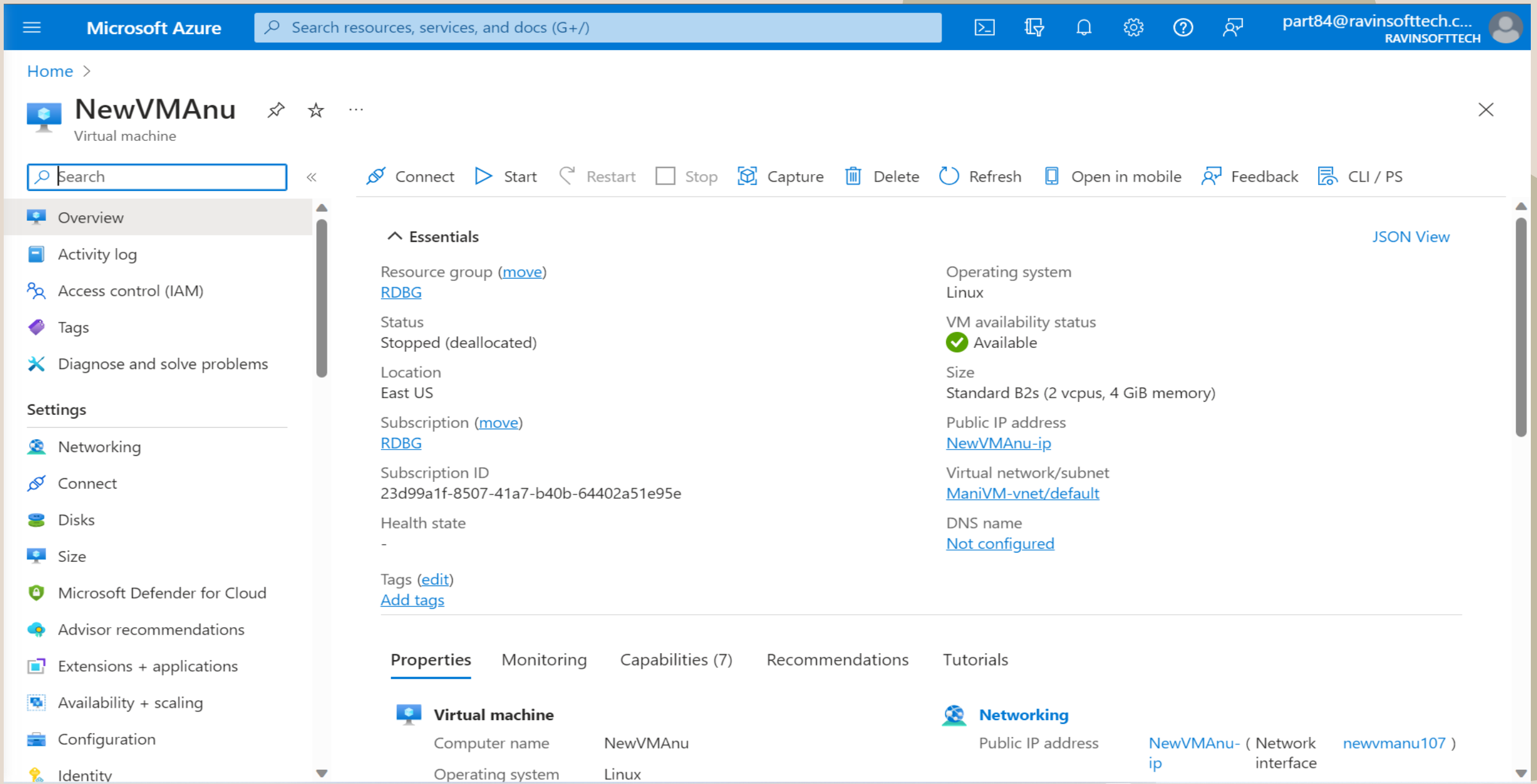

Anushka622001 / GA_Session_AD
Type / to search
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
GA_Session_AD
Anushka622001 is learning GitHub Actions #1
Re-run all jobs
Latest #2
Summary
Jobs
check-bats-version
Run details
Usage
Workflow file
Re-run triggered 6 hours ago
Anushka622001 63ac449 main
Status
Success
Total duration
17s
Artifacts
–
GA_Session_AD.yml
on: push
check-bats-version 6s

DAY-6

Cloud Computing

- Introduction To Cloud Computing
- Discussion On Various Types Of Cloud Service Models
  - Software As A Service (SAAS)
  - Platform As A Service (PAAS)
  - Infrastructure As A Service (IAAS)
- Introduction Service Layers Of Cloud Platform
- Discussion On Cloud Sourcing And The Advantages Of Cloud Services
- Introduction Cloud Taxonomy And It's Divisions
- Introduction To Microsoft Azure And It's Various Offerings
  - Analytics, Computing, Networking, Storage, Etc.
- Discussion About The Drawbacks And Challenges In Cloud Computing
- Discussion About The Future Of Cloud Computing

- Assignment – Setting Up An Azure Virtual Machine


Microsoft Azure
Search resources, services, and docs (G+/)
part84@ravinsofttech.c...
RAVINSOFTTECH
Home
NewVMAnu
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Networking
Connect
Disks
Size
Microsoft Defender for Cloud
Advisor recommendations
Extensions + applications
Availability + scaling
Configuration
Identity
Connect
Start
Restart
Stop
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Essentials
JSON View
Resource group (move)
RDBG
Status
Stopped (deallocated)
Location
East US
Subscription (move)
RDBG
Subscription ID
23d99a1f-8507-41a7-b40b-64402a51e95e
Health state
-
Tags (edit)
Add tags
Operating system
Linux
VM availability status
Available
Size
Standard B2s (2 vcpus, 4 GiB memory)
Public IP address
NewVMAnu-ip
Virtual network/subnet
ManiVM-vnet/default
DNS name
Not configured
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials
Virtual machine
Computer name
NewVMAnu
Operating system
Linux
Networking
Public IP address
NewVMAnu-ip
Network interface
newvmanu107

DAY-7

Case Study Evaluation and Assessment

- CASE STUDY – Deployment Of Java Spring Boot App
  - Azure Devops
  - Azure VM
  - Azure Web App Services
  - GitHub – Fork, Feature Branch, Pull Request, Merge
  - GitHub Actions – Automate Workflow
  - Docker – Make Docker Image And Dockerfile
  - Maven – Run Maven Package
  - Prometheus – To Monitor Local Environment

AutoSave Off | Anushka_Dhir_Assessment Case Study • Last Modified: Mon at 4:25 PM | Dhir, Anushka SBOBNG-PTIY/FAD

File Home Insert Draw Design Layout References Mailings Review View Help | Comments | Editing | Share

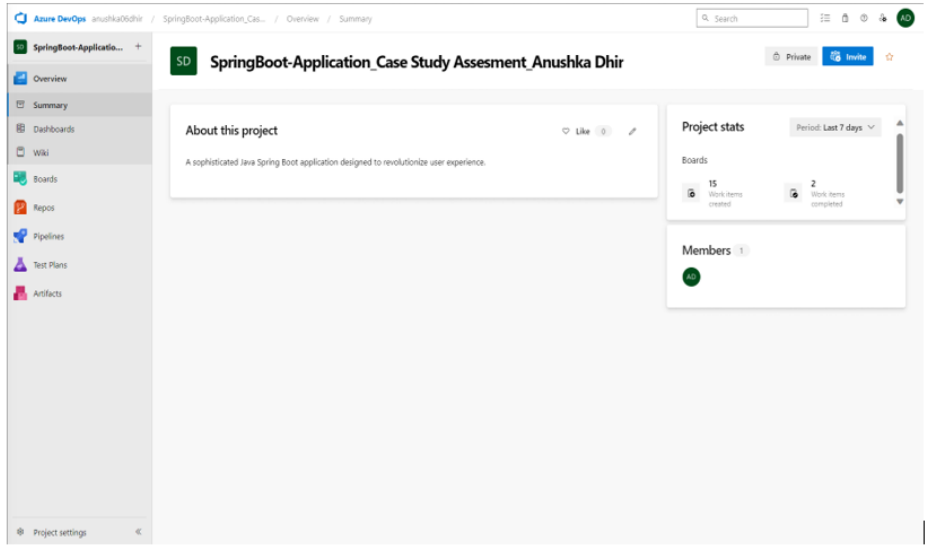
Paste | Calibri (Body) 14 | Normal | No Spacing | Heading 1 | Editing | Dictate | Sensitivity | Editor | Reuse Files

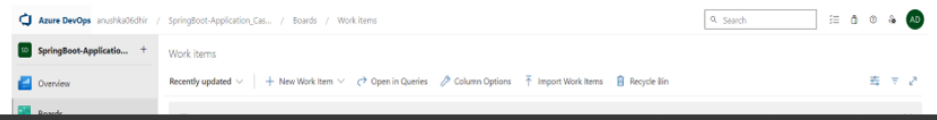
Clipboard | Font | Paragraph | Styles | Voice | Sensitivity | Editor | Reuse Files

Name- Anushka Dhir (Batch-6)

Reg ID- SH7B23188

➢ **Azure Board Activities** (Project Management Setup)**:**





Page 1 of 15 | 82 words | English (United States) | Internal | Text Predictions: On | Accessibility: Investigate | Focus | 80%

JOURNEY SCRAPBOOK

Custom Bootcamp (29th August – 6th October)

Week-1

Anushka Dhir

Batch-6

DAY-1

Data Fundamentals

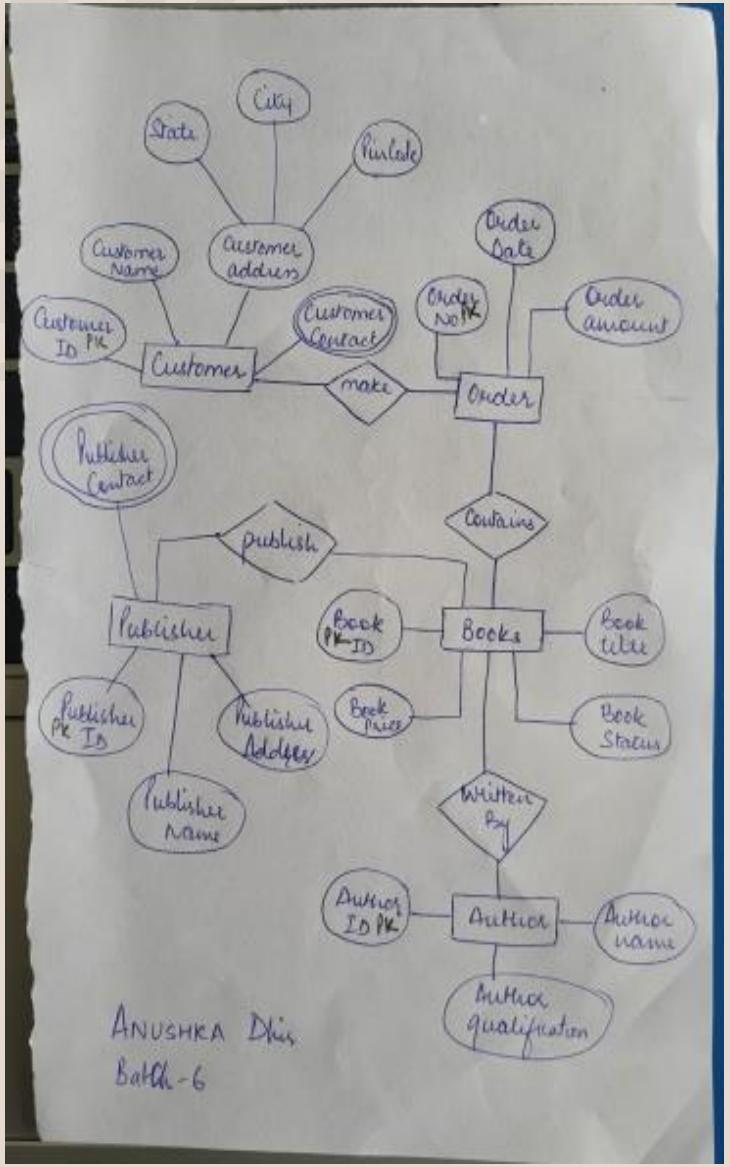
- What Is Data?
- Types Of Data
- What Is Database?
- What Does Data Engineer Do?
- Normalization And Denormalization
- Normalization Forms (1NF,2NF,3NF,BCNF)
- Dependencies (Partial, Transitive, Functional)
- Attribute Keys (Candidate, Primary, Foreign, Super)
- Anomalies- Insert, Update, Delete
- Data Modelling And ER Diagram

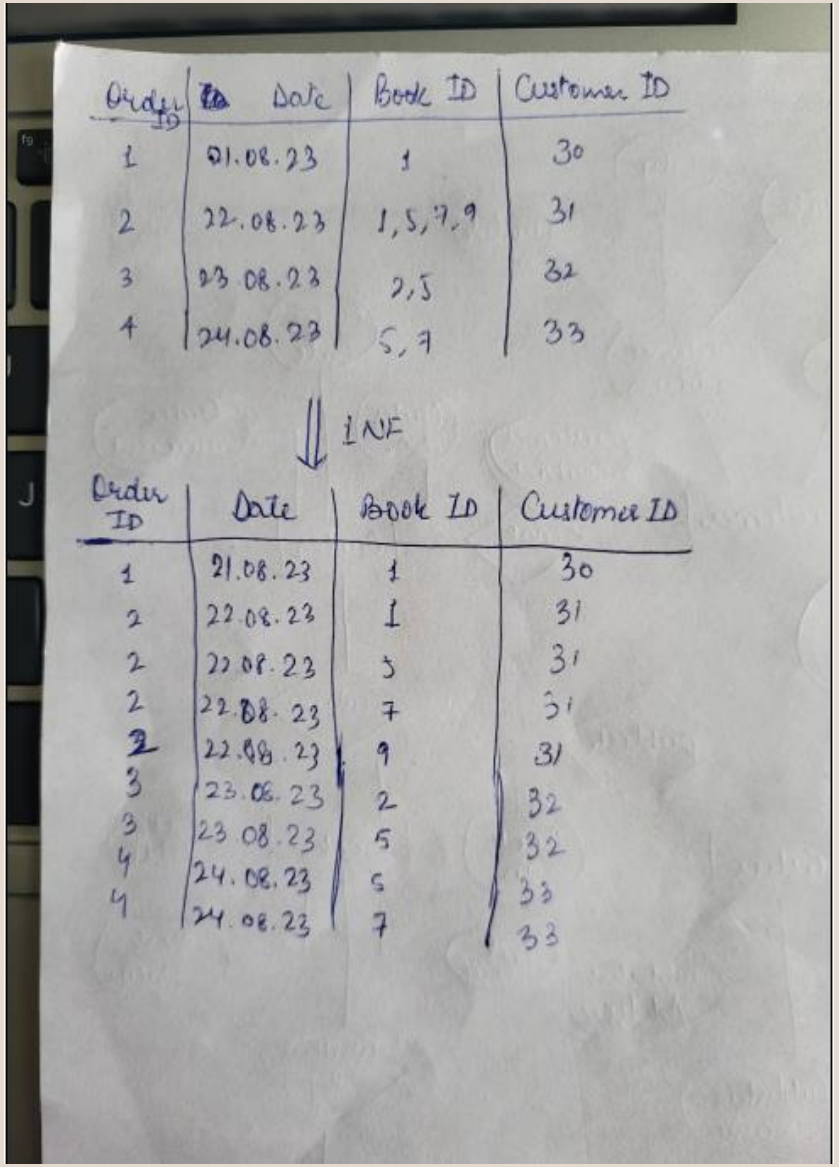
•Activity- To Make An ER Diagram For Ordering A Book From Online Store, Perform Normalization

- Dimensional Modelling
- Fact Table And Dimension Table
- Star Schema & Snowflake Schema

•Activity- Implement The Concepts Of Star And Snowflake Schema By Drawing Respective Diagrams

- SCD (Slowly Changing Dimension)

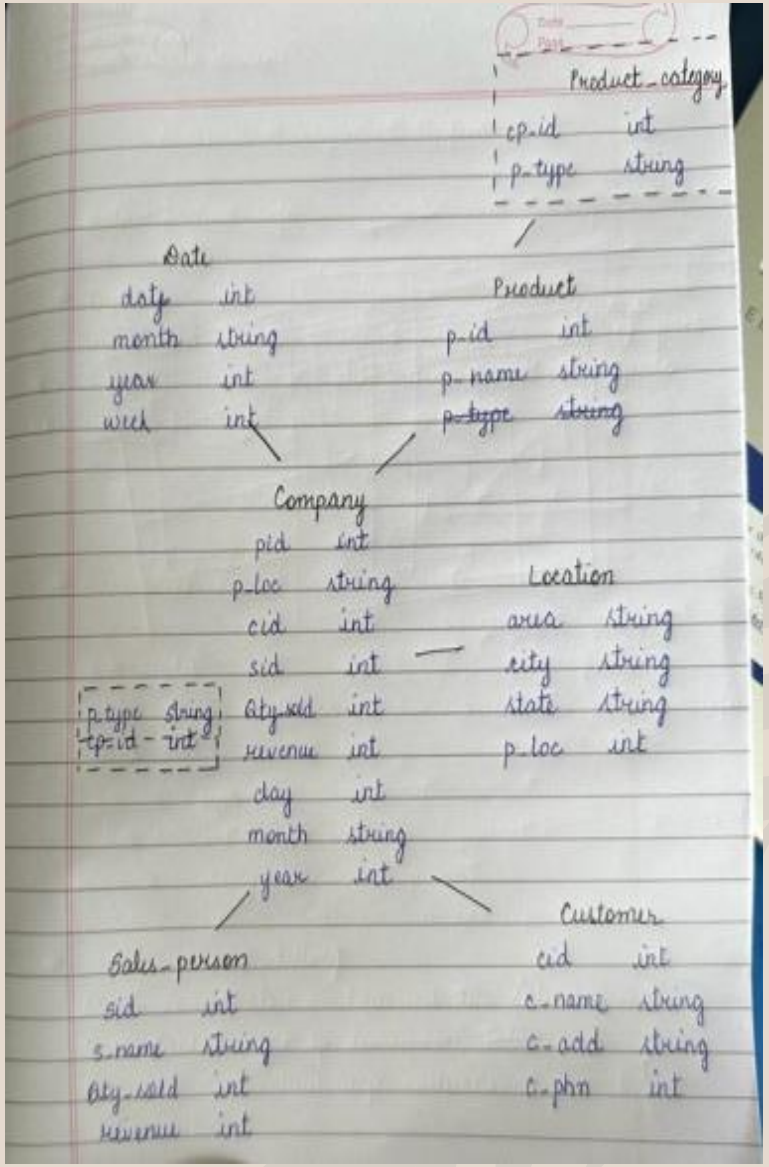




Order ID	Date	Book ID	Customer ID
1	21.08.23	1	30
2	22.08.23	1,5,7,9	31
3	23.08.23	2,5	32
4	24.08.23	5,7	33

⇓ INF

Order ID	Date	Book ID	Customer ID
1	21.08.23	1	30
2	22.08.23	1	31
2	22.08.23	5	31
2	22.08.23	7	31
2	22.08.23	9	31
3	23.08.23	2	32
3	23.08.23	5	32
4	24.08.23	5	33
4	24.08.23	7	33



DAY-2

Big Data & Azure Services Fundamentals

Big Data Fundamentals

1.What Is Data?
2.What Is Big Data?
3.4 V's Of Big Data - Volume, Variety, Velocity, Veracity
4.Batch And Stream Data Processing.
5.Extract, Load, Transform(ETL) Pipelines
6.How To Process Big Data?
    a. Hadoop
    b. Pyspark
7.Parallel Processing And Distributive Computing
8.Hadoop Used For Batch Processing & Pyspark Used For Stream Processing.
9.Types Of Data Structure
    a. Structured Data
    b. Semi-structured Data
    c. Unstructured Data
10.Data Warehouse -
    a. Save Data As Object
        i. Tables
        ii. Views
    b. Structured Data (Fixed Schema-data Allocated Even If Value Is Null)
    c. Dimension Modelling
    d. ACID Property In DBMS -
        i. Atomicity
        ii. Consistency
        iii. Isolation
        iv. Durability
11.Datalake -
    a. Saves All Types Of Data (Structured, Semi-structured And Unstructured)
    b. Flexible Schema (No Data Allocated For Null Values)
    c. No ACID Properties

DAY-2

Big Data & Azure Services Fundamentals

Big Data Fundamentals (Contd.)

1. Data Lakehouse
    a. Combination Of Data Warehouse And Datalake.
    b. Took Advantages Of Both Data Warehouse And Datalake.
2. Creating A VM Using Microsoft Azure.
3. What Is Cloud Computing.
4. Types Of Cloud -
    1. Public Cloud
    2. Private Cloud
    3. Hybrid Cloud
5. Cloud Benefits -
    1. High Availability
    2. Scalability
    3. Agility
    4. Fault Tolerance
    5. Elasticity
    6. Security
    7. Disaster Recovery
    8. Customer Latency Capabilities
6. Compare Capex(capital Expenditure) Vs OpEx(operational Expenditure) -
    1. Cloud Is OpEx.
7. Infrastructure As A Service(IAAS)
8. Platform As A Service(PAAS)
9. Software As A Service(SAAS)
10. Shared Responsibility Model
11. Serverless Computing

DAY-2

Big Data & Azure Services Fundamentals

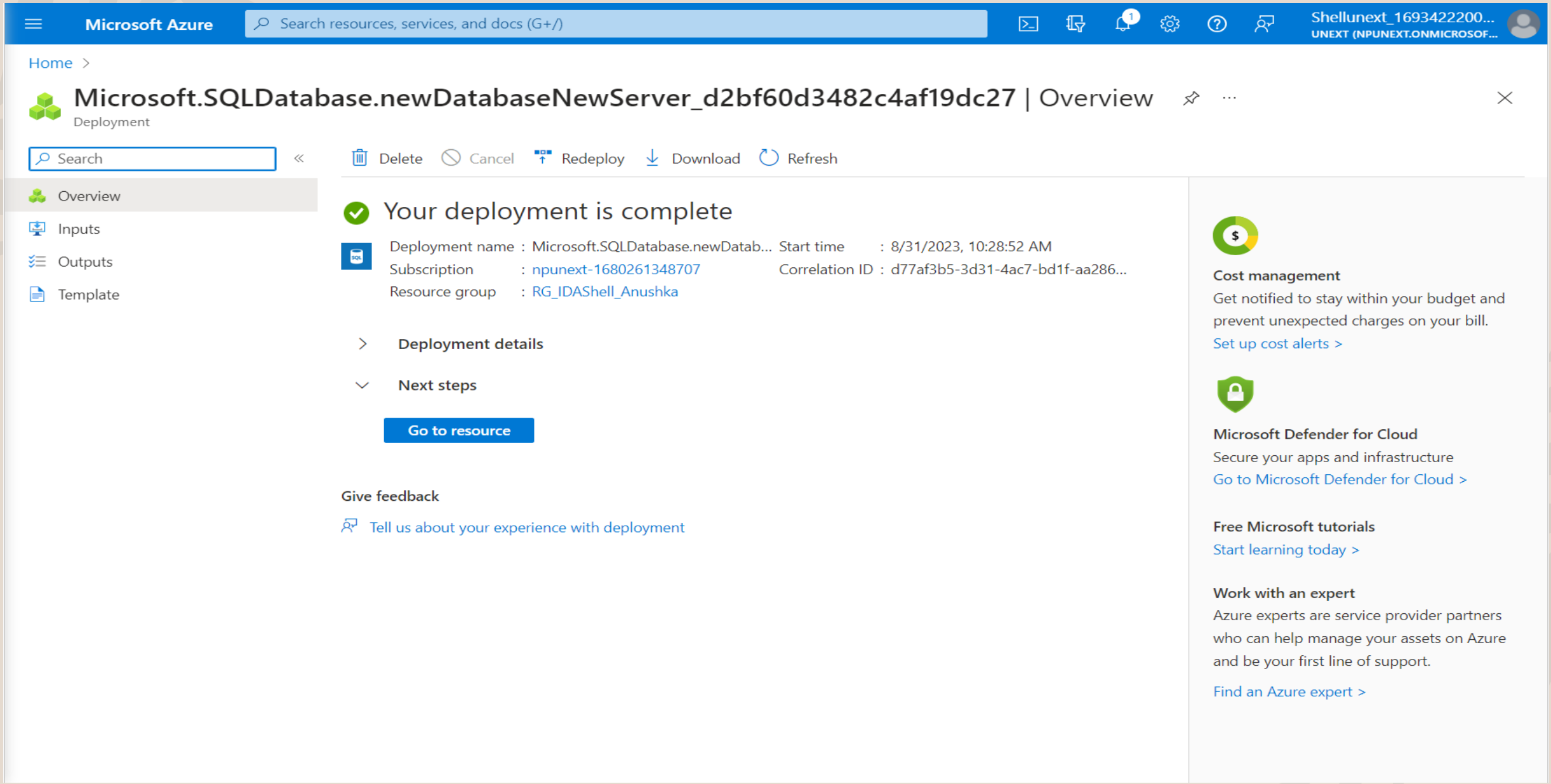
Azure Services Fundamentals

1. Azure Architecture
    a. Regions
    b. Region Pairs
    c. Availability Zones
2. Azure Resources
3. Azure Subscriptions -
    i. Billing Boundary
    ii. Access Control Boundary
4. Azure Resource Manager
5. Resource Groups
6. Subscriptions -> Resource Groups

DAY-3

Azure SQL

1.Setting Up Azure SQL Services By Logging In On Azure Portal.
2.SQL Deployment Options For Azure SQL:
    1. SQL Database
    2. SQL Managed Instances
    3. SQL Virtual Machines
3.Select SQL Database -> Single Database -> Create Database.
4.Introduction To SQL
5.Database Created On Microsoft Azure SQL.
6.Running Query Editor On Our Server.
7.DDL (Data Definition Language): create, Alter, Drop, Truncate
8.DML(data Manipulation Language): Select, Insert, Update, Delete
9.DCL(data Control Language):grant, REVOKE
10. Constraints
11.View: View Is A Virtual Table Based On The Result-set Of An SQL Statement.
12.Schema In Sql
13.Difference Between DELETE, DROP, TRUNCATE.
14.Activity : Create Tables For Online Book Store
15.Group By Clause
16.Having Clause : For Filtration
17.Where Clause
18.GRANT: Grant Select Permission On <Table_name> To <User>
19.Revoke


Microsoft Azure
Search resources, services, and docs (G+/)
Shellunext_1693422200...
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Home
Microsoft.SQLDatabase.newDatabaseNewServer_d2bf60d3482c4af19dc27 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name : Microsoft.SQLDatabase.newDatab...
Subscription : npunext-1680261348707
Resource group : RG_IDAShell_Anushka
Start time : 8/31/2023, 10:28:52 AM
Correlation ID : d77af3b5-3d31-4ac7-bd1f-aa286...
Deployment details
Next steps
Go to resource
Give feedback
Tell us about your experience with deployment
Cost management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
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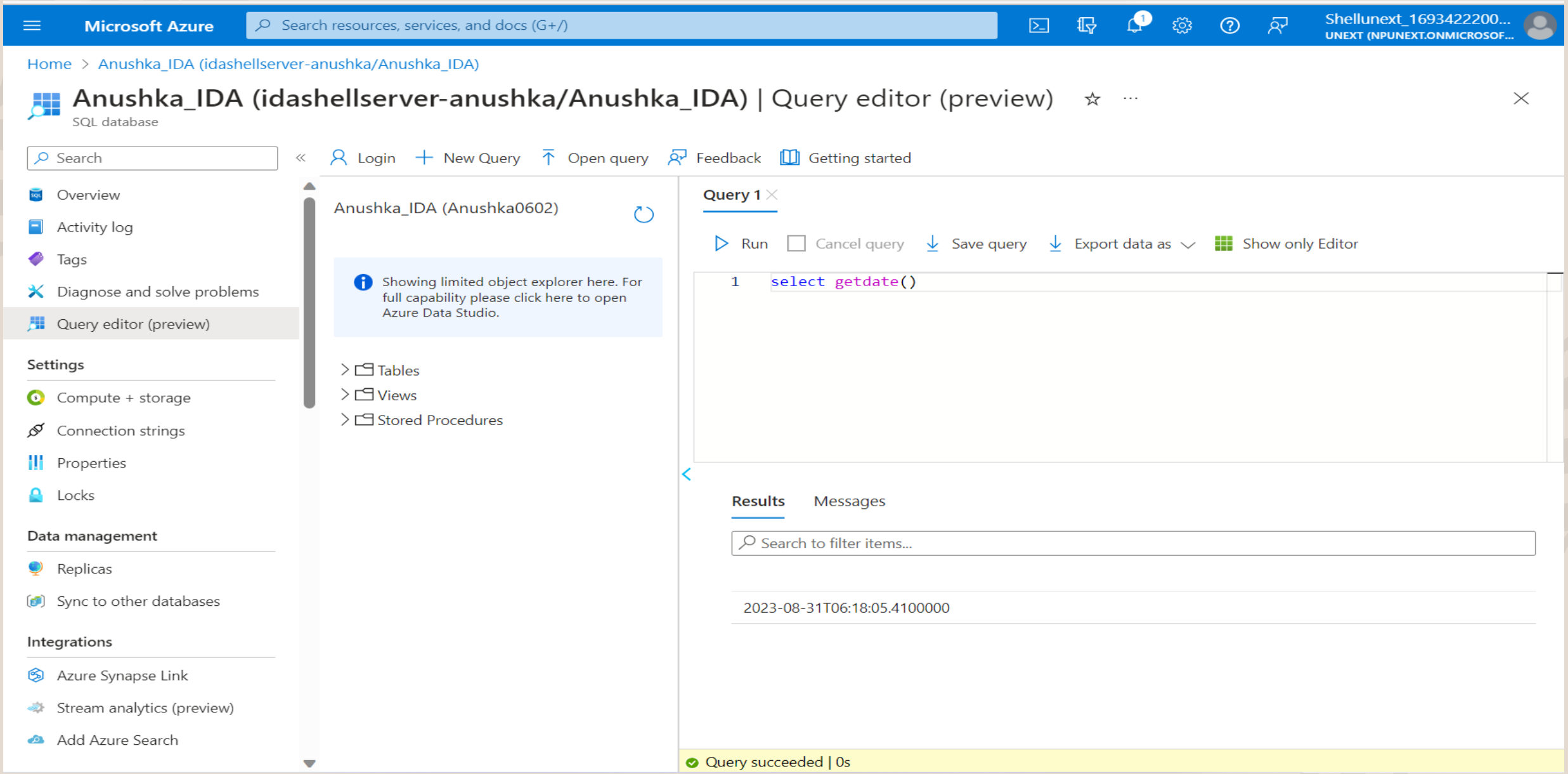
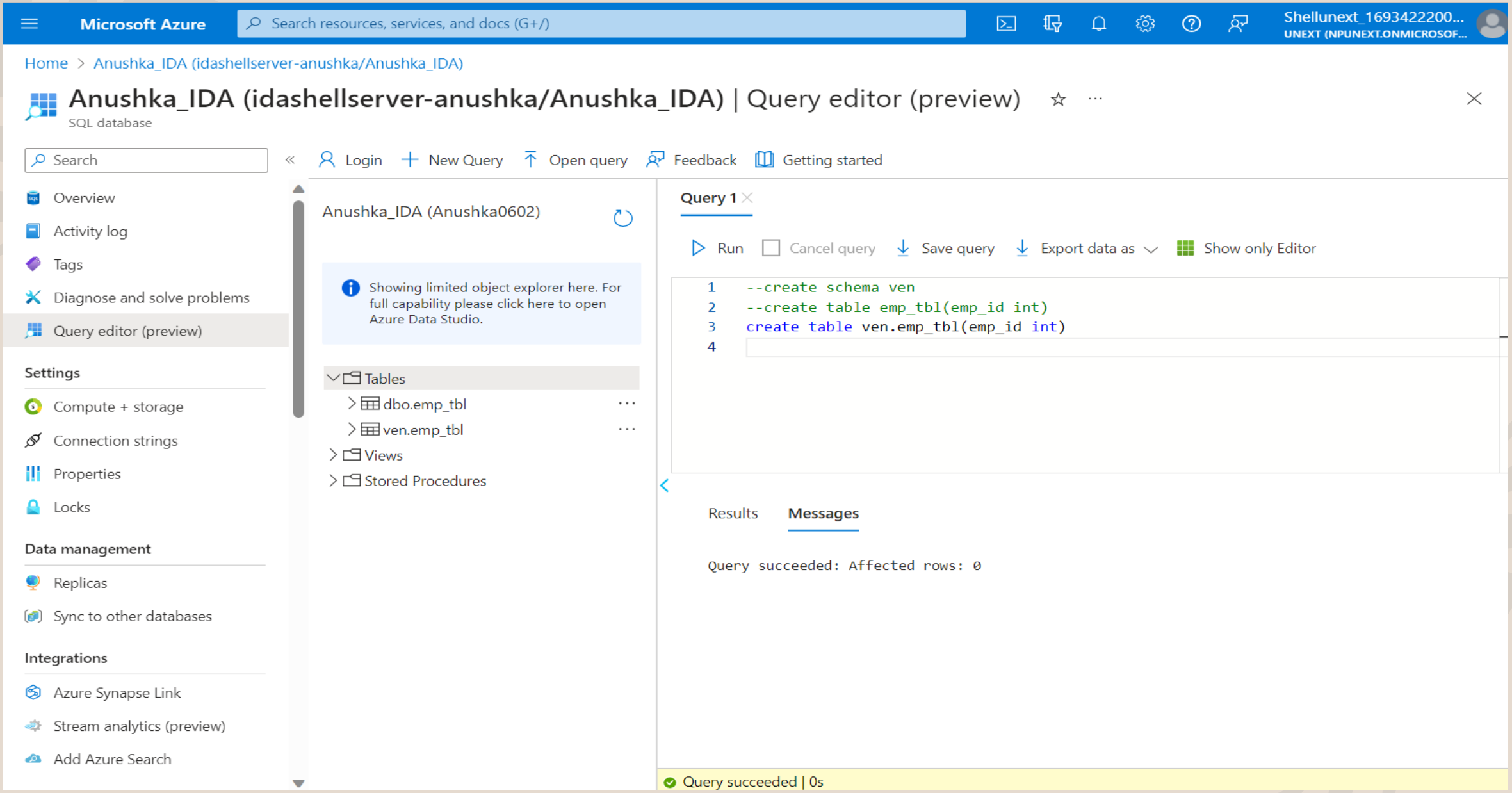
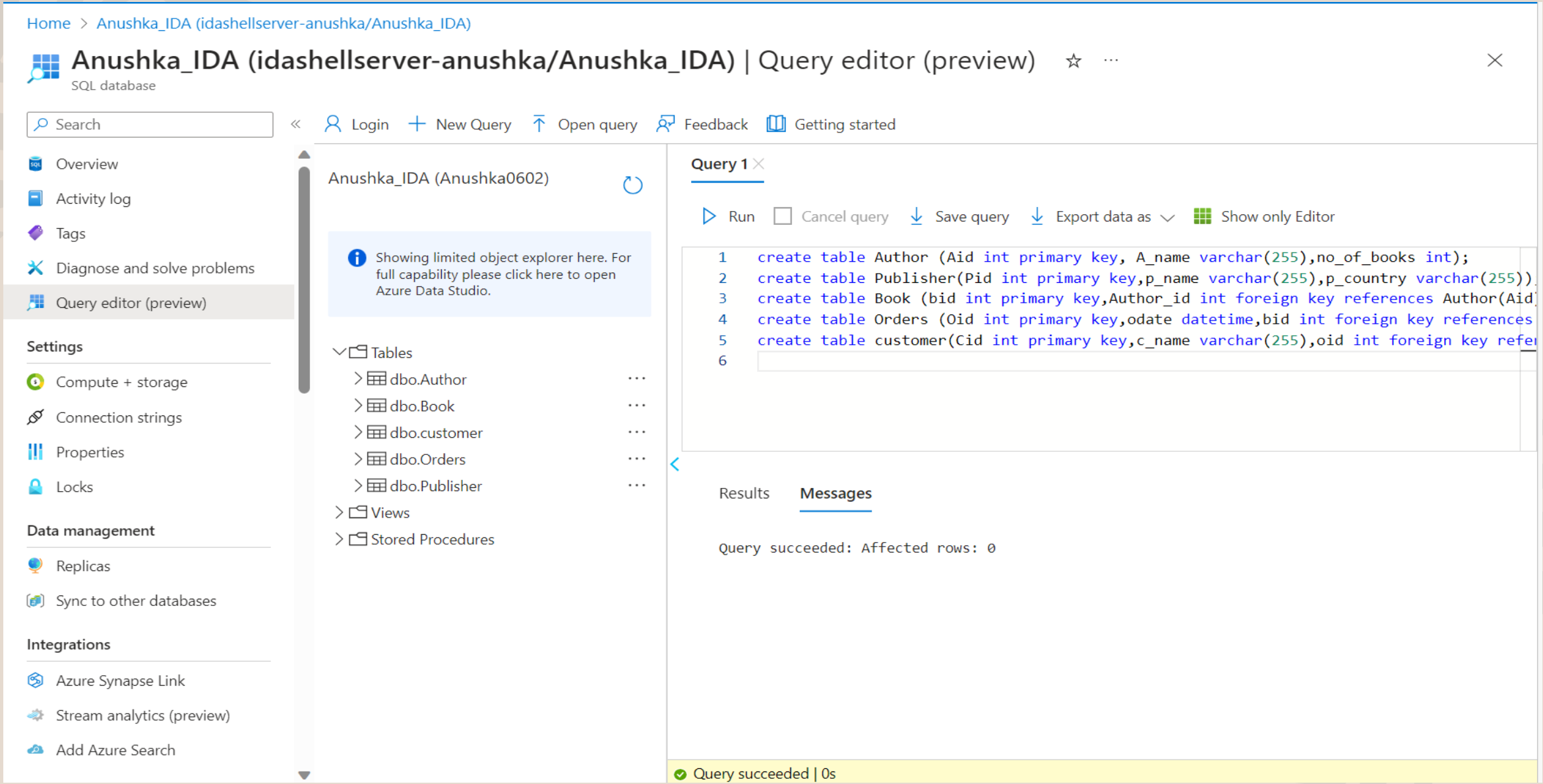
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >


Microsoft Azure
Search resources, services, and docs (G+/)
Shellunext_1693422200...
UNEXT (NPUNEXT.ONMICROSOF...
Home > Anushka_IDA (idashellserver-anushka/Anushka_IDA)
Anushka_IDA (idashellserver-anushka/Anushka_IDA) | Query editor (preview)
SQL database
Search
Login
New Query
Open query
Feedback
Getting started
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 Search
Anushka_IDA (Anushka0602)
Showing limited object explorer here. For full capability please click here to open Azure Data Studio.
Tables
Views
Stored Procedures
Query 1
Run
Cancel query
Save query
Export data as
Show only Editor
1 select getdate()
Results
Messages
Search to filter items...
2023-08-31T06:18:05.4100000
Query succeeded | 0s

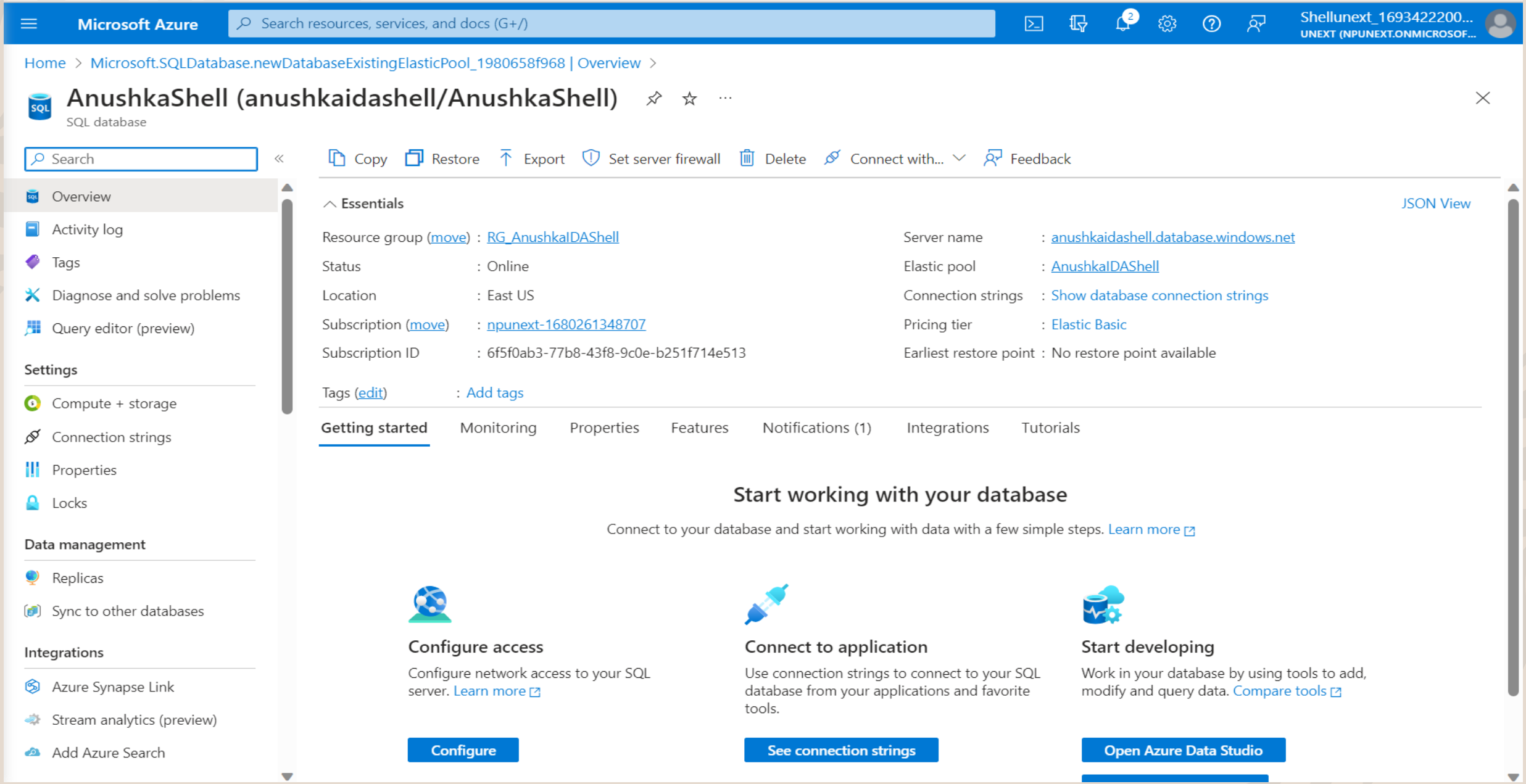

Microsoft Azure
Search resources, services, and docs (G+/)
Shellunext_1693422200...
UNEXT (NPUNEXT.ONMICROSOF...
Home > Anushka_IDA (idashellserver-anushka/Anushka_IDA)
Anushka_IDA (idashellserver-anushka/Anushka_IDA) | Query editor (preview)
SQL database
Search
Overview
Activity log
Tags
Diagnose and 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 Search
Login
New Query
Open query
Feedback
Getting started
Anushka_IDA (Anushka0602)
Showing limited object explorer here. For full capability please click here to open Azure Data Studio.
Tables
dbo.emp_tbl
ven.emp_tbl
Views
Stored Procedures
Query 1
Run
Cancel query
Save query
Export data as
Show only Editor
1 --create schema ven
2 --create table emp_tbl(emp_id int)
3 create table ven.emp_tbl(emp_id int)
4
Results
Messages
Query succeeded: Affected rows: 0
Query succeeded | 0s

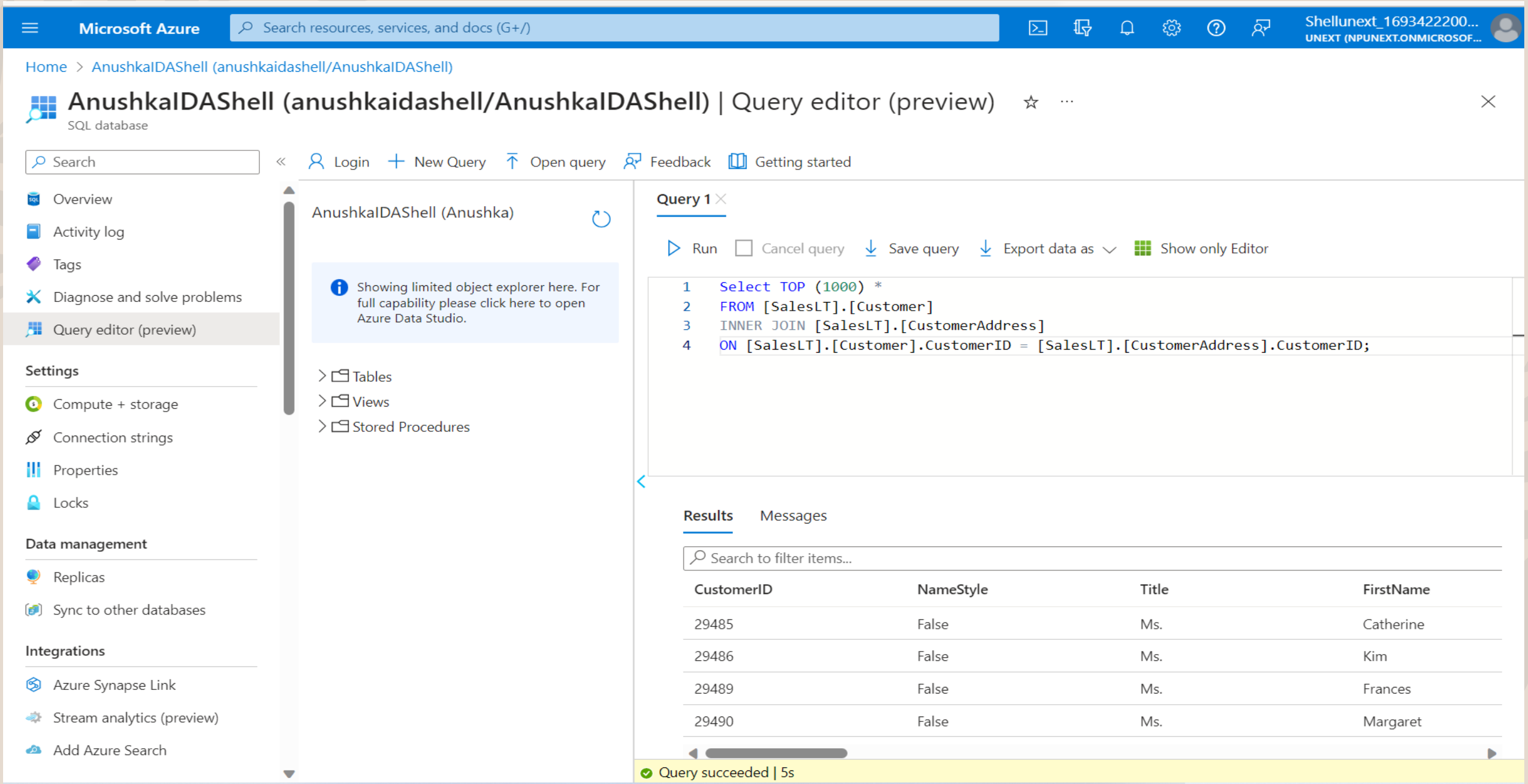

Home > Anushka_IDA (idashellserver-anushka/Anushka_IDA)
Anushka_IDA (idashellserver-anushka/Anushka_IDA) | Query editor (preview)
SQL database
Search
Login
New Query
Open query
Feedback
Getting started
Overview
Activity log
Tags
Diagnose and solve problems
Query editor (preview)
Settings
Compute + storage
Connection strings
Properties
Locks
Data management
Replicas
Sync to other databases
Integrations
Azure Synapse Link
Stream analytics (preview)
Add Azure Search
Anushka_IDA (Anushka0602)
Showing limited object explorer here. For full capability please click here to open Azure Data Studio.
Tables
dbo.Author
dbo.Book
dbo.customer
dbo.Orders
dbo.Publisher
Views
Stored Procedures
Query 1
Run
Cancel query
Save query
Export data as
Show only Editor
1 create table Author (Aid int primary key, A_name varchar(255),no_of_books int);
2 create table Publisher(Pid int primary key,p_name varchar(255),p_country varchar(255))
3 create table Book (bid int primary key,Author_id int foreign key references Author(Aid
4 create table Orders (Oid int primary key,odate datetime,bid int foreign key references
5 create table customer(Cid int primary key,c_name varchar(255),oid int foreign key refe
6
Results
Messages
Query succeeded: Affected rows: 0
Query succeeded | 0s

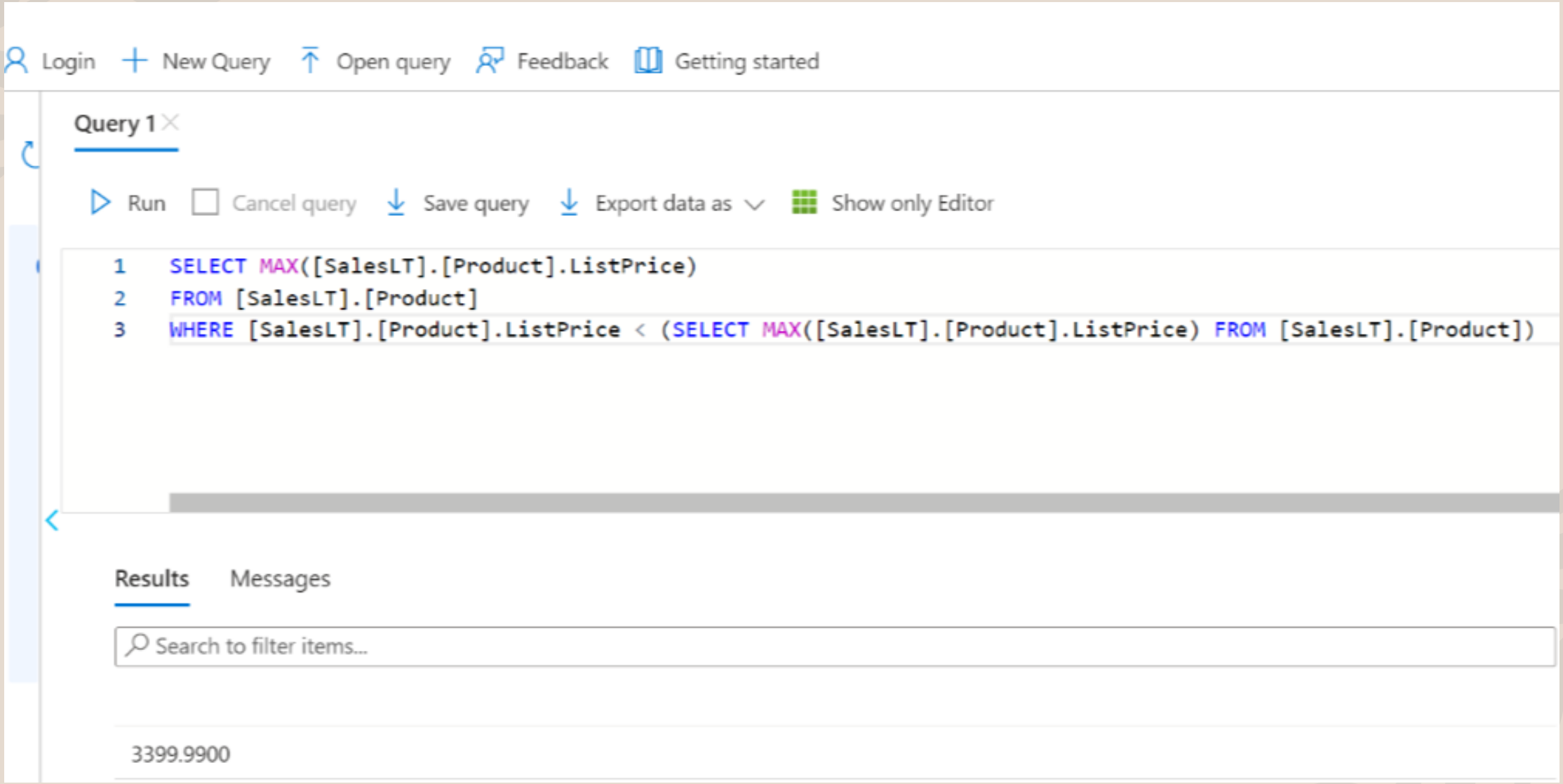
DAY-4

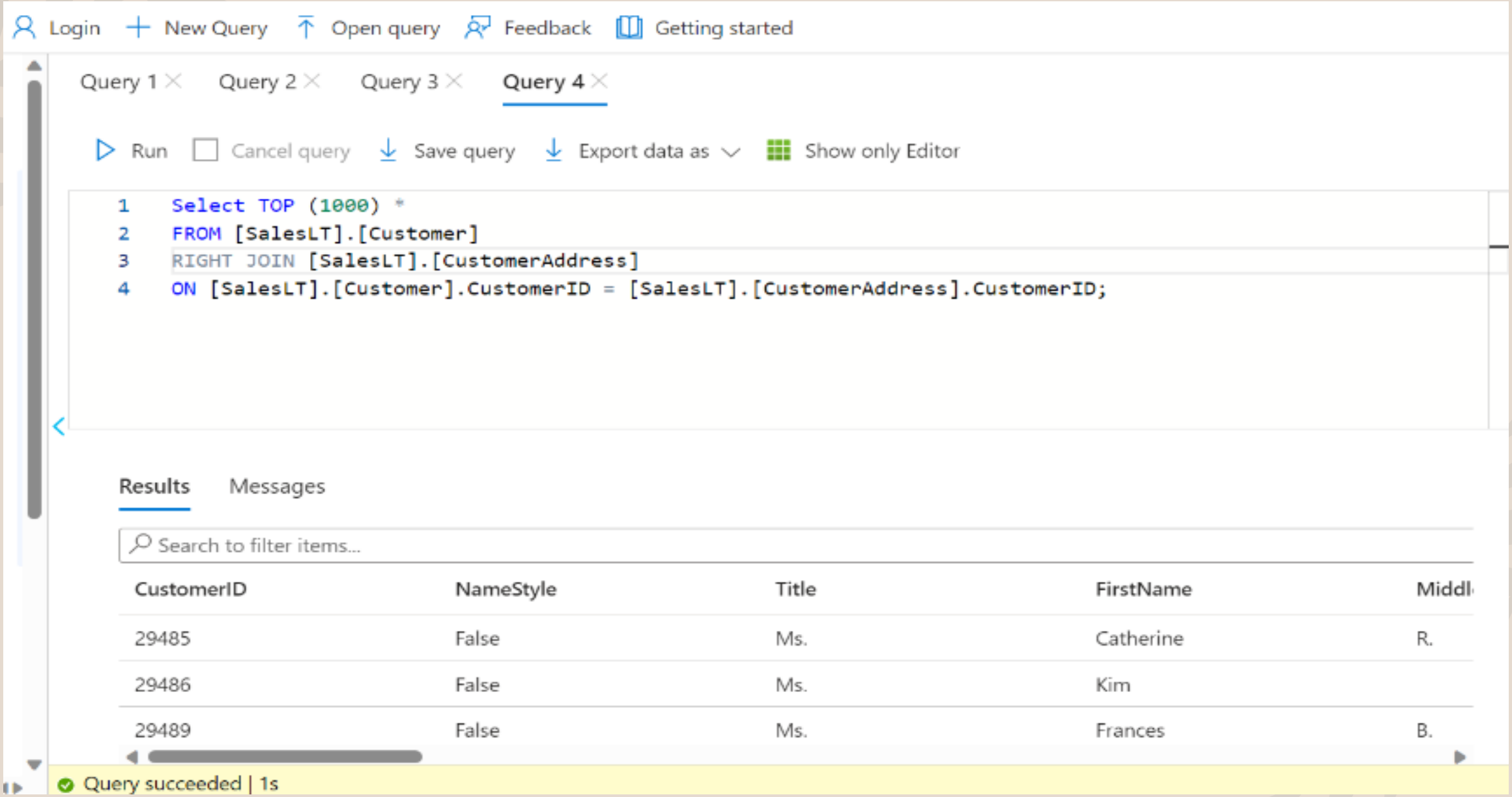
Azure SQL

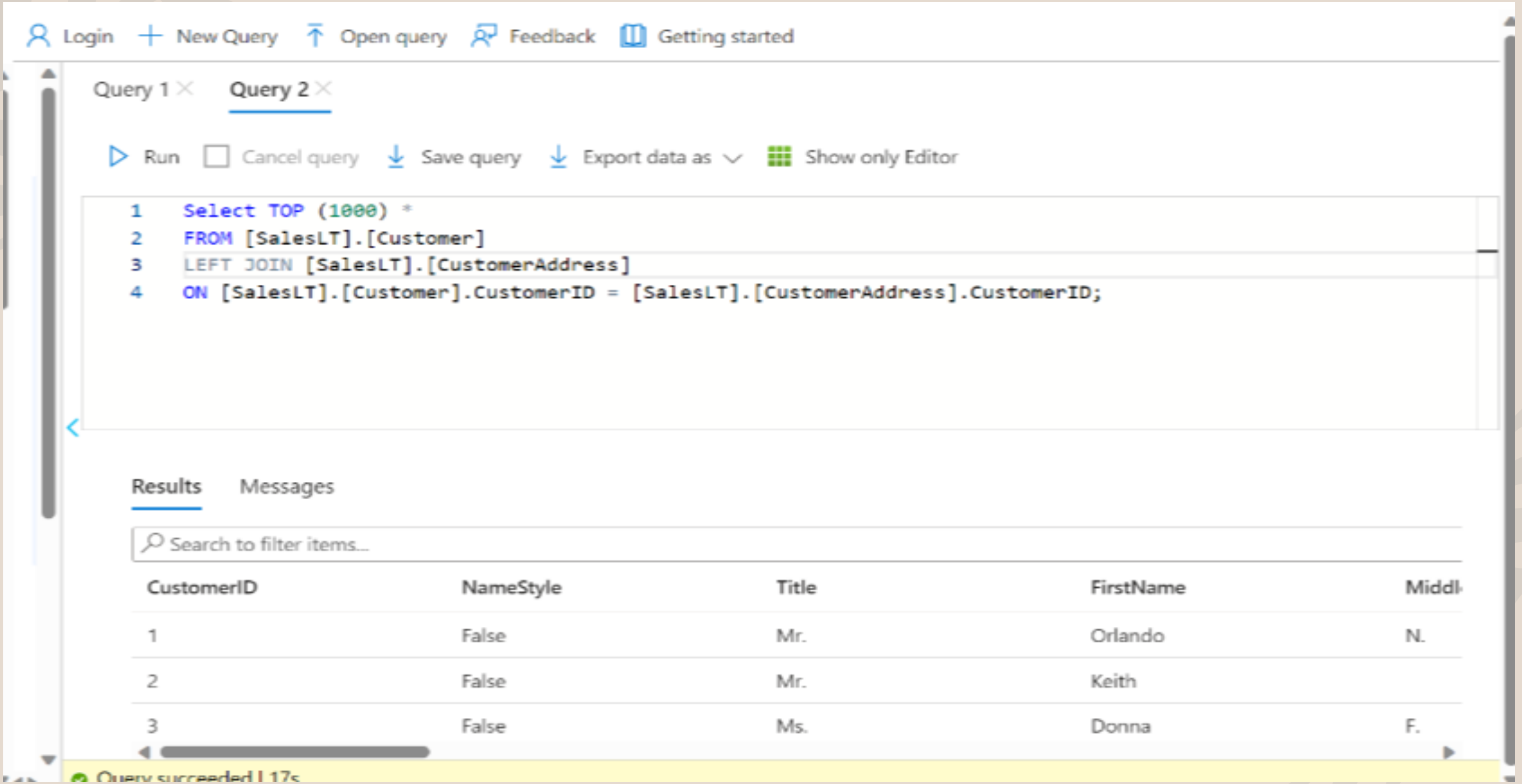
1. Create A Database And Elastic Pool.
2. Joins:
    a. Inner Join
    b. Left Join
    c. Right Join
    d. Self Join
    e. Outer Join
    f. Cross Join
3. Stored Procedure
4. Views
5. Functions
    1. Scaler
    2. Table Valued
6. Complex Codes -> Stored Procedures
7. Simple Code -> Views
8. Temporary Table: # Before Table Name Creates A Temporary Table (i.e., No Physical Table Created). It Drops Automatically.
9. Sub-queries
10. UNION And UNION ALL
11. Intersection
12. INDEX
    a. Clustered Index
    b. Non-Clustered Index
    c. Column Stored Index

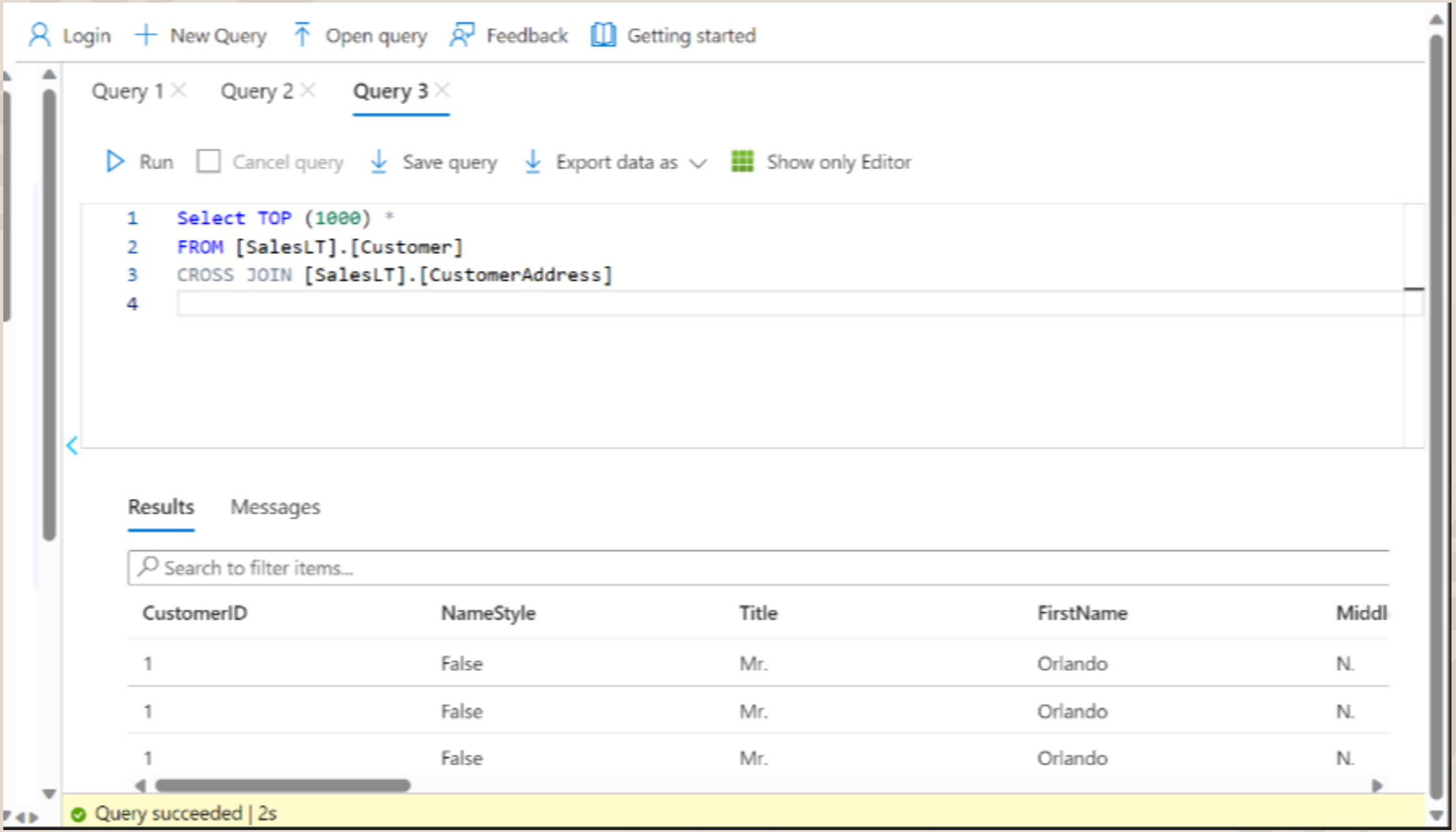

Microsoft Azure
Search resources, services, and docs (G+/)
Shellunext_1693422200...
UNEXT (NPUNEXT.ONMICROSOF...
Home > Microsoft.SQLDatabase.newDatabaseExistingElasticPool_1980658f968 | Overview >
AnushkaShell (anushkaidashell/AnushkaShell)
SQL database
Search
Overview
Activity log
Tags
Diagnose and 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 Search
Copy
Restore
Export
Set server firewall
Delete
Connect with...
Feedback
Essentials
JSON View
Resource group (move) : RG_AnushkaIDAShell
Status : Online
Location : East US
Subscription (move) : npunext-1680261348707
Subscription ID : 6f5f0ab3-77b8-43f8-9c0e-b251f714e513
Server name : anushkaidashell.database.windows.net
Elastic pool : AnushkaIDAShell
Connection strings : Show database connection strings
Pricing tier : Elastic Basic
Earliest restore point : No restore point available
Tags (edit) : Add tags
Getting started
Monitoring
Properties
Features
Notifications (1)
Integrations
Tutorials
Start working with your database
Connect to your database and start working with data with a few simple steps. Learn more
Configure access
Configure network access to your SQL server. Learn more
Configure
Connect to application
Use connection strings to connect to your SQL database from your applications and favorite tools.
See connection strings
Start developing
Work in your database by using tools to add, modify and query data. Compare tools
Open Azure Data Studio


Microsoft Azure
Search resources, services, and docs (G+/)
Shellunext_1693422200...
UNEXT (NPUNEXT.ONMICROSOF...
Home > AnushkaIDAShell (anushkaidashell/AnushkaIDAShell)
AnushkaIDAShell (anushkaidashell/AnushkaIDAShell) | Query editor (preview)
SQL database
Search
Login
New Query
Open query
Feedback
Getting started
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 Search
AnushkaIDAShell (Anushka)
Showing limited object explorer here. For full capability please click here to open Azure Data Studio.
Tables
Views
Stored Procedures
Query 1
Run
Cancel query
Save query
Export data as
Show only Editor
1 Select TOP (1000) *
2 FROM [SalesLT].[Customer]
3 INNER JOIN [SalesLT].[CustomerAddress]
4 ON [SalesLT].[Customer].CustomerID = [SalesLT].[CustomerAddress].CustomerID;
Results
Messages
Search to filter items...
CustomerID NameStyle Title FirstName
29485 False Ms. Catherine
29486 False Ms. Kim
29489 False Ms. Frances
29490 False Ms. Margaret
Query succeeded | 5s


Login
New Query
Open query
Feedback
Getting started
Query 1
Run
Cancel query
Save query
Export data as
Show only Editor
1 SELECT MAX([SalesLT].[Product].ListPrice)
2 FROM [SalesLT].[Product]
3 WHERE [SalesLT].[Product].ListPrice < (SELECT MAX([SalesLT].[Product].ListPrice) FROM [SalesLT].[Product])
Results
Messages
Search to filter items...
3399.9900


Login
New Query
Open query
Feedback
Getting started
Query 1
Query 2
Query 3
Query 4
Run
Cancel query
Save query
Export data as
Show only Editor
1 Select TOP (1000) *
2 FROM [SalesLT].[Customer]
3 RIGHT JOIN [SalesLT].[CustomerAddress]
4 ON [SalesLT].[Customer].CustomerID = [SalesLT].[CustomerAddress].CustomerID;
Results
Messages
Search to filter items...
CustomerID NameStyle Title FirstName Middl
29485 False Ms. Catherine R.
29486 False Ms. Kim
29489 False Ms. Frances B.
Query succeeded | 1s


Login
New Query
Open query
Feedback
Getting started
Query 1
Query 2
Run
Cancel query
Save query
Export data as
Show only Editor
1 Select TOP (1000) *
2 FROM [SalesLT].[Customer]
3 LEFT JOIN [SalesLT].[CustomerAddress]
4 ON [SalesLT].[Customer].CustomerID = [SalesLT].[CustomerAddress].CustomerID;
Results
Messages
Search to filter items...
CustomerID NameStyle Title FirstName Middl
1 False Mr. Orlando N.
2 False Mr. Keith
3 False Ms. Donna F.
Query succeeded | 17s


Login
New Query
Open query
Feedback
Getting started
Query 1
Query 2
Query 3
Run
Cancel query
Save query
Export data as
Show only Editor
1 Select TOP (1000) *
2 FROM [SalesLT].[Customer]
3 CROSS JOIN [SalesLT].[CustomerAddress]
4
Results
Messages
Search to filter items...
CustomerID NameStyle Title FirstName Middl
1 False Mr. Orlando N.
1 False Mr. Orlando N.
1 False Mr. Orlando N.
Query succeeded | 2s

JOURNEY SCRAPBOOK

Custom Bootcamp (29th August – 6th October)

Week-2

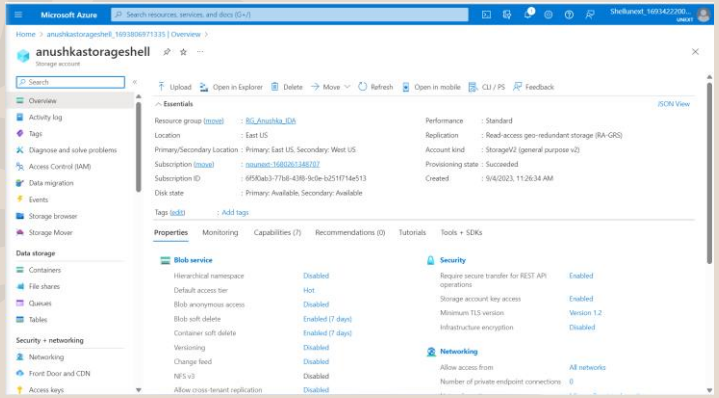
Anushka Dhir

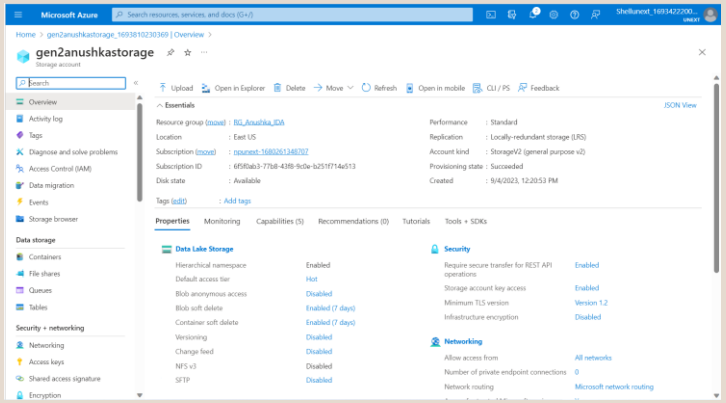
Batch-6

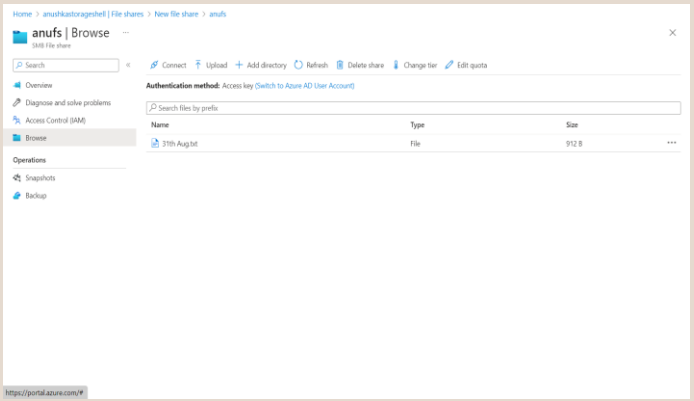
DAY-1

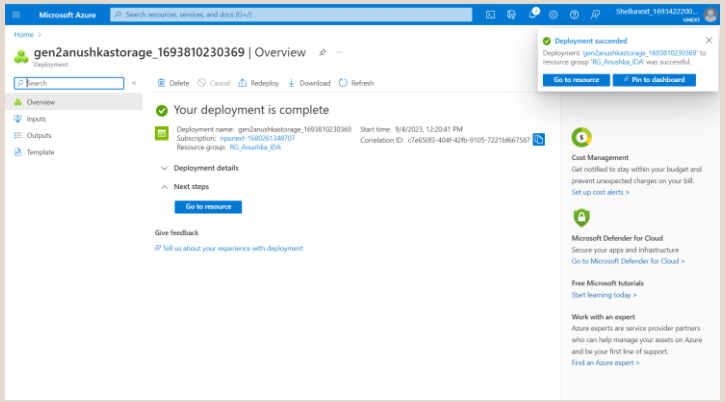
Azure Storage Types- Day 1

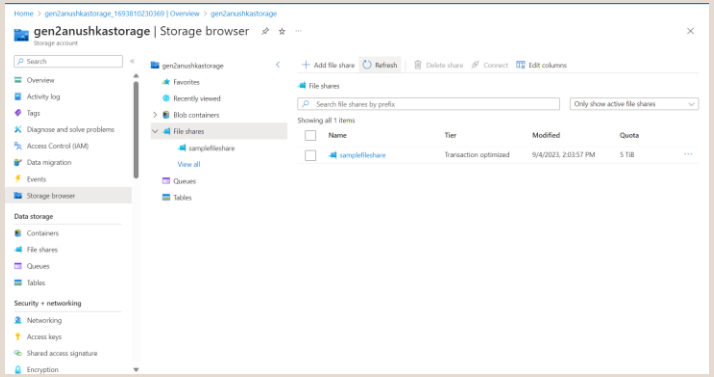
1. Create A Resource -> Azure Storage Account
2. Resource Group
3. Storage Account
4. Storage Services
5. Redundancy
    1. Local Redundancy
    2. Zone Redundancy
    3. Geo Redundancy
    4. Geo Zone Redundancy
6. RAGRS (Read Access Geo Redundant Storage)
    1. Failover
    2. Synchronous Replication
7. Security
8. Access Protocols
9. Access Tiers
    1. Hot
    2. Cold
    3. Cool
    4. Archive Access
10. Purging & Archiving
11. Containers - Folder For Storing Files
12. Azure Tables
13. Azure Queues
14. File Shares
15. Snapshots
16. Ingress & Egress
17. Static Website

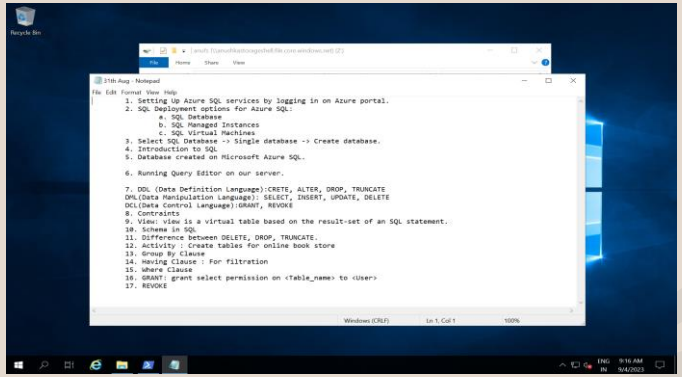

anushkastorageshell
Storage account
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Storage Mover
Data storage
Containers
File shares
Queues
Tables
Security + networking
Networking
Front Door and CDN
Access keys
Upload
Open in Explorer
Delete
Move
Refresh
Open in mobile
CLI / PS
Feedback
Essentials
JSON View
Properties
Monitoring
Capabilities (7)
Recommendations (0)
Tutorials
Tools + SDKs
Blob service
Security
Networking

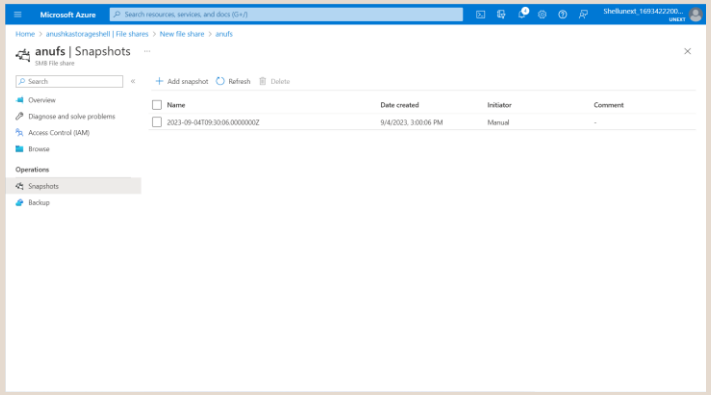

gen2anushkastorage
Storage account
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Data storage
Containers
File shares
Queues
Tables
Security + networking
Networking
Access keys
Shared access signature
Encryption
Upload
Open in Explorer
Delete
Move
Refresh
Open in mobile
CLI / PS
Feedback
Essentials
JSON View
Properties
Monitoring
Capabilities (5)
Recommendations (0)
Tutorials
Tools + SDKs
Data Lake Storage
Security
Networking

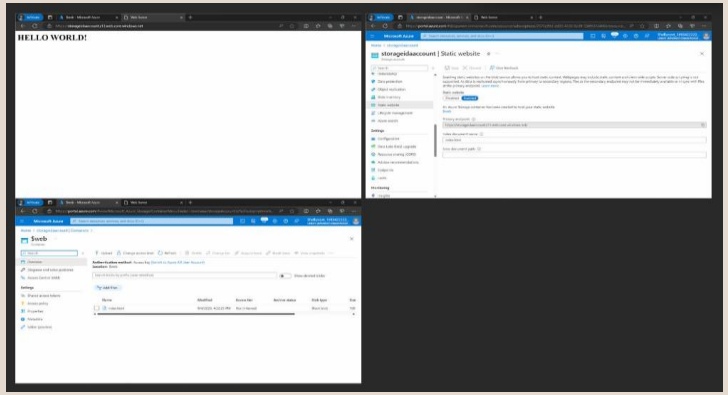

anufs | Browse
Overview
Diagnose and solve problems
Access Control (IAM)
Browse
Operations
Snapshots
Backup
Connect
Upload
Add directory
Refresh
Delete share
Change tier
Edit quota
Authentication method: Access key (Switch to Azure AD User Account)
Search files by prefix
Name
Type
Size
31th Aug.txt
File
912 B


gen2anushkastorage_1693810230369 | Overview
Deployment
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Deployment succeeded
Go to resource
Pin to dashboard
Your deployment is complete
Deployment details
Next steps
Go to resource
Give feedback
Cost Management
Microsoft Defender for Cloud
Free Microsoft tutorials
Work with an expert


gen2anushkastorage | Storage browser
Storage account
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Data storage
Containers
File shares
Queues
Tables
Security + networking
Networking
Access keys
Shared access signature
Encryption
Add file share
Refresh
Delete share
Connect
Edit columns
File shares
Search file shares by prefix
Only show active file shares
Showing all 1 items
Name
Tier
Modified
Quota
sampleflieshare
Transaction optimized
9/4/2023, 2:03:57 PM
5 TiB


Recycle Bin
31th Aug - Notepad
1. Setting Up Azure SQL services by logging in on Azure portal.
2. SQL Deployment options for Azure SQL:
a. SQL Database
b. SQL Managed Instances
c. SQL Virtual Machines
3. Select SQL Database -> Single database -> Create database.
4. Introduction to SQL
5. Database created on Microsoft Azure SQL.
6. Running Query Editor on our server.
7. DDL (Data Definition Language):CREATE, ALTER, DROP, TRUNCATE
DML(Data Manipulation Language): SELECT, INSERT, UPDATE, DELETE
DCL(Data Control Language):GRANT, REVOKE
8. Contraints
9. View: view is a virtual table based on the result-set of an SQL statement.
10. Schema in SQL
11. Difference between DELETE, DROP, TRUNCATE.
12. Activity : Create tables for online book store
13. Group By Clause
14. Having Clause : For filtration
15. Where Clause
16. GRANT: grant select permission on <Table_name> to <User>
17. REVOKE

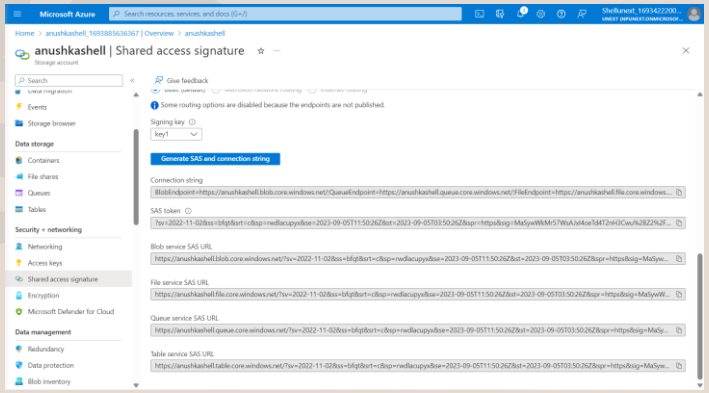

anufs | Snapshots
Overview
Diagnose and solve problems
Access Control (IAM)
Browse
Operations
Snapshots
Backup
Add snapshot
Refresh
Delete
Name
Date created
Initiator
Comment
2023-09-04T09:30:06.0000000Z
9/4/2023, 3:00:06 PM
Manual

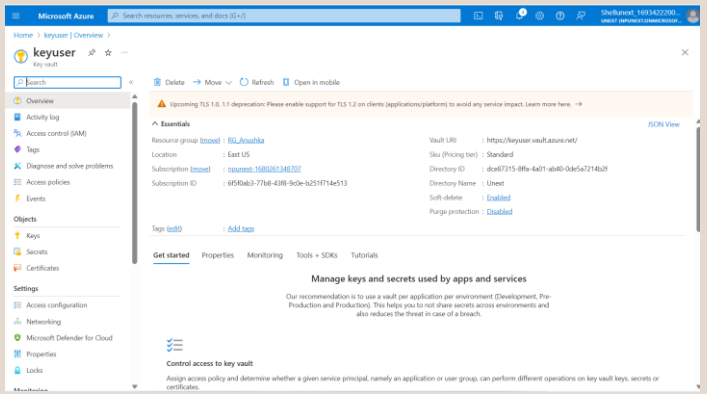

HELLO WORLD!

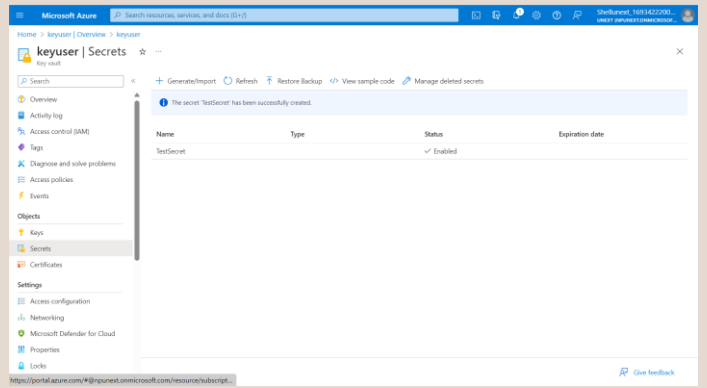
DAY-2

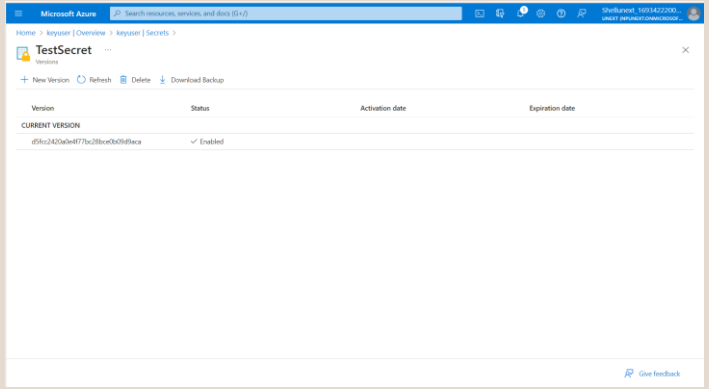
Azure Storage Types- Day 2 & Azure Data Factory

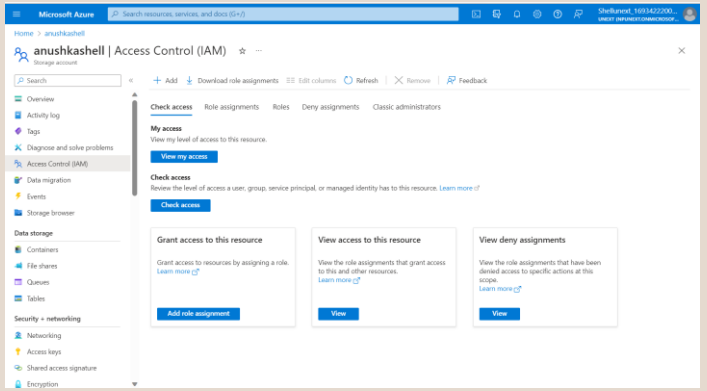
1. Access Keys : Lifetime
2. SAS (Shared Access Signature) : Time-bounded
3. Azure Key Vaults
4. Access Control (IAM) : Check Access Here
5. Azure Data Factory :
    a. Data Engineer Activities:
        i. ETL (Extract,Transform,Load)
        ii. ELT
        iii. Azure Databricks - Transformation
    b. Data Orchestration
    c. ADF Components:
        i. Pipelines : Combination Of One Or More Activities
        ii. Activities
        iii. Datasets
        iv. Linked Services : To Access Particular Directory This Is Used.
        v. Integration Runtime : Gateway Or Bridge To Connect For Data Extraction.
            1. Azure Auto Resolved (Default)
            2. Self-hosted
            3. Azure SSIS
        vi. Triggers
        vii. Data Flow
    d. Parameterization
    e. Pipelines

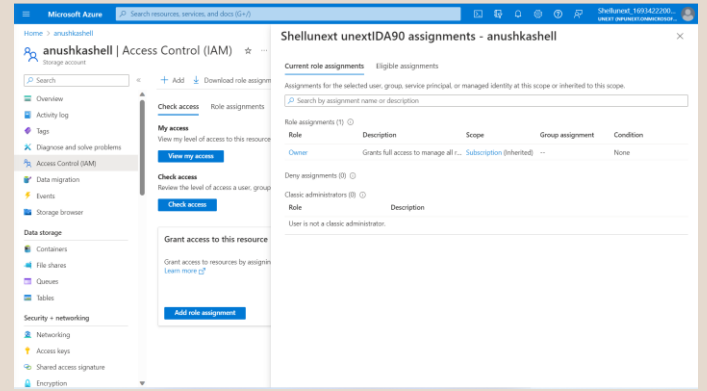

anushkashell | Shared access signature
Storage account
Give feedback
Some routing options are disabled because the endpoints are not published.
Signing key
key1
Generate SAS and connection string
Connection string
SAS token
Blob service SAS URL
File service SAS URL
Queue service SAS URL
Table service SAS URL
Data storage
Containers
File shares
Queues
Tables
Security + networking
Networking
Access keys
Shared access signature
Encryption
Microsoft Defender for Cloud
Data management
Redundancy
Data protection
Blob inventory

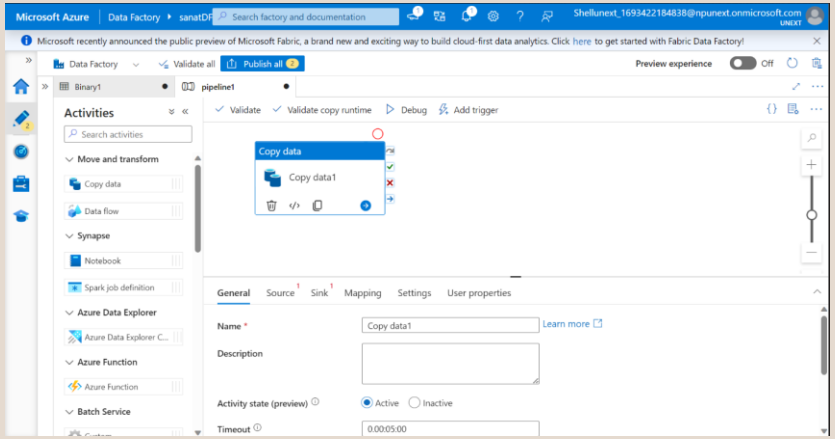

keyuser | Overview
Key vault
Delete
Move
Refresh
Open in mobile
Essentials
JSON View
Resource group (move) : RG_Anushka
Location : East US
Subscription (move) : npunext-1680261348707
Subscription ID : 6f5f0ab3-77b8-43f8-9c0e-b251f714e513
Vault URI : https://keyuser.vault.azure.net/
Sku (Pricing tier) : Standard
Directory ID : dce87315-8ffa-4a01-ab40-0de5a7214b2f
Directory Name : Unext
Soft-delete : Enabled
Purge protection : Disabled
Tags (edit) : Add tags
Get started
Properties
Monitoring
Tools + SDKs
Tutorials
Manage keys and secrets used by apps and services
Control access to key vault
Objects
Keys
Secrets
Certificates
Settings
Access configuration
Networking
Microsoft Defender for Cloud
Properties
Locks


keyuser | Secrets
Key vault
Generate/Import
Refresh
Restore Backup
View sample code
Manage deleted secrets
The secret 'TestSecret' has been successfully created.
Name
Type
Status
Expiration date
TestSecret
Enabled
Give feedback


TestSecret
Versions
New Version
Refresh
Delete
Download Backup
Version
Status
Activation date
Expiration date
CURRENT VERSION
Enabled
Give feedback


anushkashell | Access Control (IAM)
Storage account
Add
Download role assignments
Edit columns
Refresh
Remove
Feedback
Check access
Role assignments
Roles
Deny assignments
Classic administrators
My access
View my level of access to this resource.
View my access
Check access
Review the level of access a user, group, service principal, or managed identity has to this resource.
Grant access to this resource
Grant access to resources by assigning a role.
Add role assignment
View access to this resource
View the role assignments that grant access to this and other resources.
View
View deny assignments
View the role assignments that have been denied access to specific actions at this scope.
Data migration
Events
Storage browser
Data storage
Containers
File shares
Queues
Tables
Security + networking
Networking
Access keys
Shared access signature
Encryption


anushkashell | Access Control (IAM)
Storage account
Shellunext unextIDA90 assignments - anushkashell
Current role assignments
Eligible assignments
Assignments for the selected user, group, service principal, or managed identity at this scope or inherited to this scope.
Role assignments (1)
Role
Description
Scope
Group assignment
Condition
Owner
Grants full access to manage all r...
Subscription (Inherited)
None
Deny assignments (0)
Classic administrators (0)
User is not a classic administrator.


Microsoft Azure
Data Factory
Search factory and documentation
Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click here to get started with Fabric Data Factory!
Validate all
Publish all
Preview experience
Off
Binary1
pipeline1
Validate
Validate copy runtime
Debug
Add trigger
Activities
Search activities
Move and transform
Copy data
Data flow
Synapse
Notebook
Spark job definition
Azure Data Explorer
Azure Function
Batch Service
Copy data
Copy data1
General
Source
Sink
Mapping
Settings
User properties
Name *
Learn more
Description
Activity state (preview)
Active
Inactive
Timeout
0.00:05:00

DAY-3

Azure Data Factory - Day 1

1.Create Data Factory

2.Activities In Pipeline :

a. String, Boolean, Array And Integer Activities In Pipelines
b. Execute Pipeline Activity
c. SSIS Package (Azure SSIS IR - Required For This Package)
d. Get Metadata Activity

1.Copy Data Activity Implementation

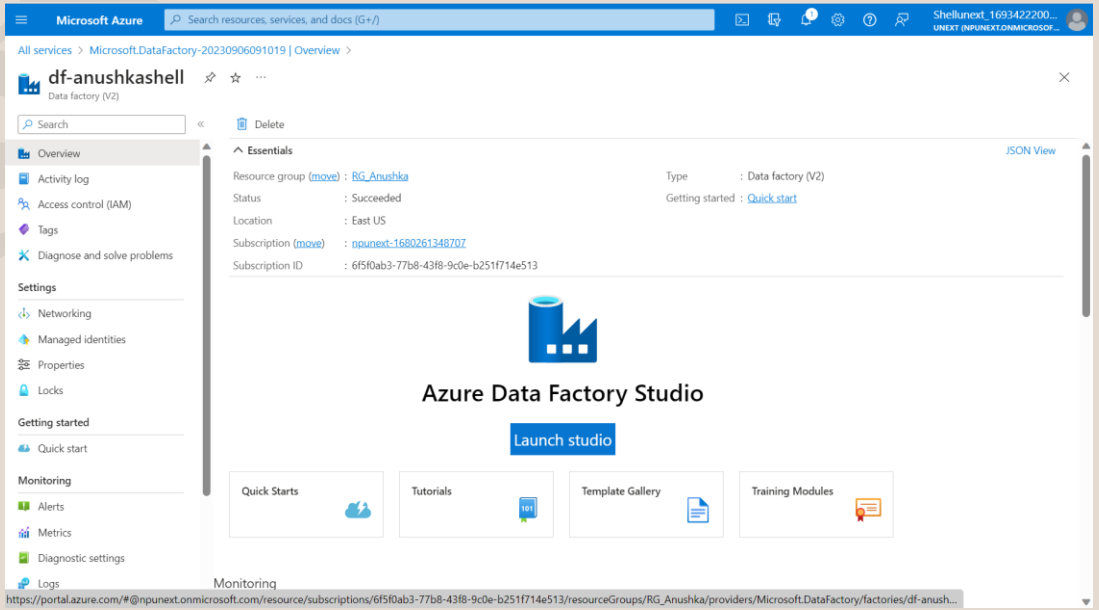
2.Parameter Concept Implementation

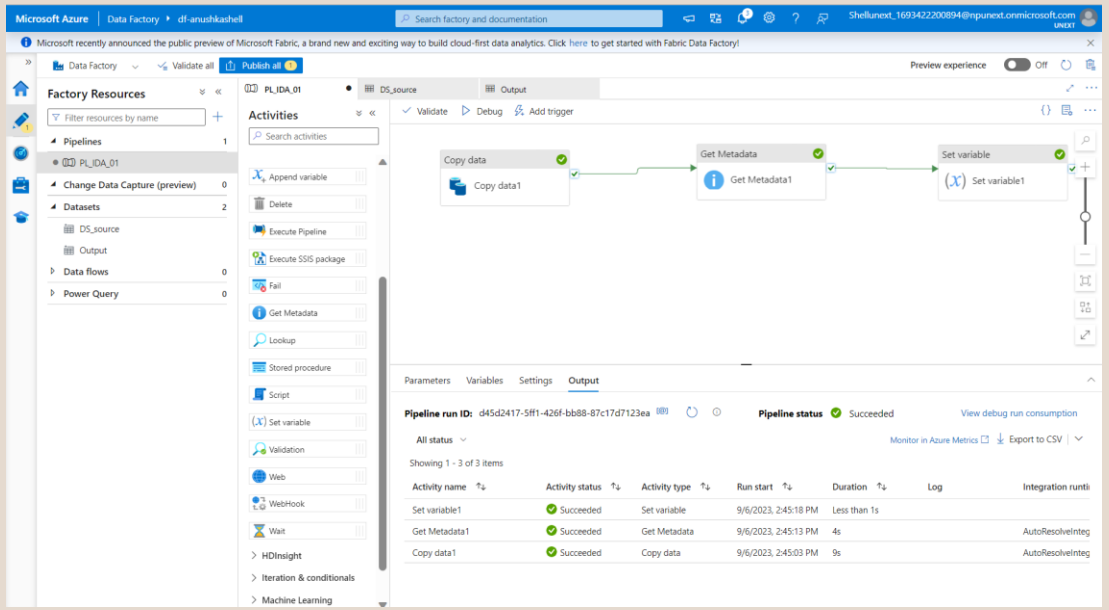
3.Triggers

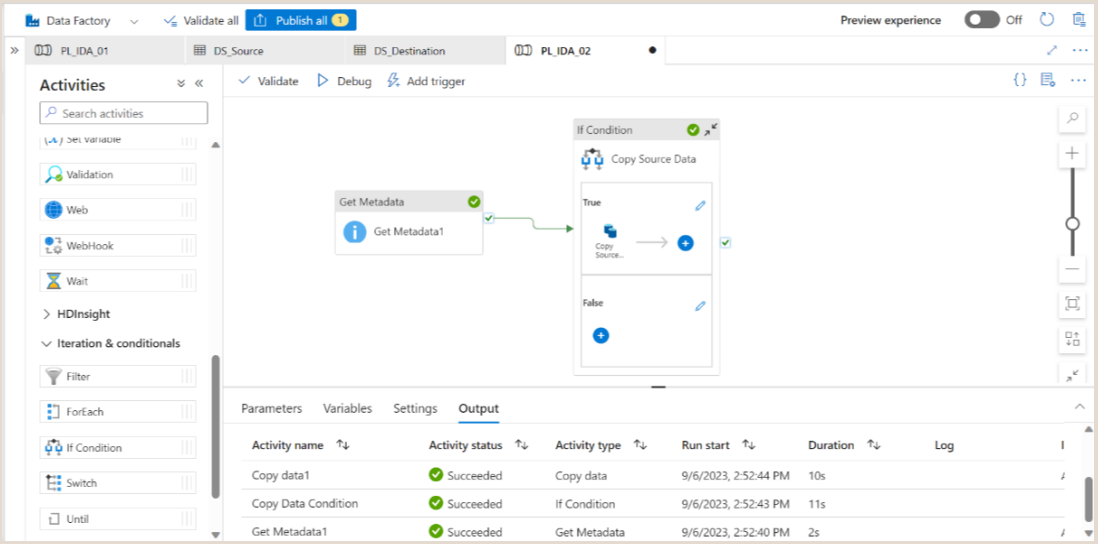
4.Get Metadata Activity

7.If-else Condition For Get Metadata In Pipelines.

8.For Each Loop


Microsoft Azure
Search resources, services, and docs (G+/)
All services > Microsoft.DataFactory-20230906091019 | Overview >
df-anushkashell
Data factory (V2)
Search
Delete
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Networking
Managed identities
Properties
Locks
Getting started
Quick start
Monitoring
Alerts
Metrics
Diagnostic settings
Logs
Essentials
JSON View
Resource group (move) : RG_Anushka
Status : Succeeded
Location : East US
Subscription (move) : npunext-1680261348707
Subscription ID : 6f5f0ab3-77b8-43f8-9c0e-b251f714e513
Type : Data factory (V2)
Getting started : Quick start
Azure Data Factory Studio
Launch studio
Quick Starts
Tutorials
Template Gallery
Training Modules
Monitoring
https://portal.azure.com/#@npunext.onmicrosoft.com/resource/subscriptions/6f5f0ab3-77b8-43f8-9c0e-b251f714e513/resourceGroups/RG_Anushka/providers/Microsoft.DataFactory/factories/df-anush...

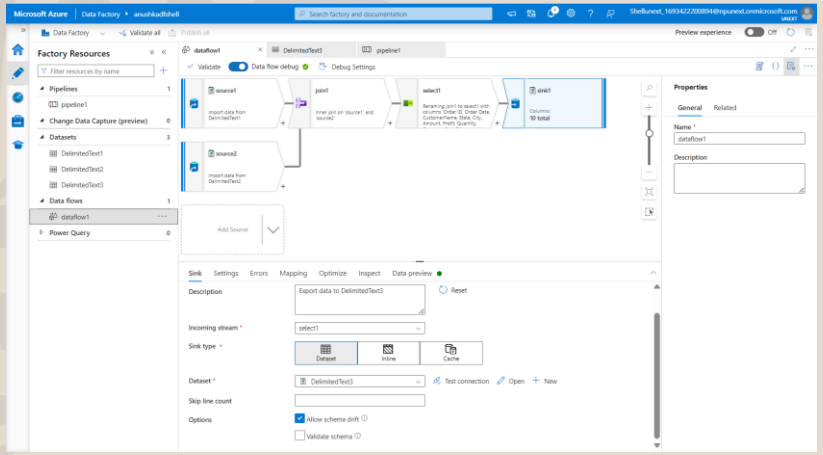

Microsoft Azure
Data Factory
df-anushkashell
Search factory and documentation
Data Factory
Validate all
Publish all
Preview experience
Off
Factory Resources
Filter resources by name
Pipelines
PL_IDA_01
Change Data Capture (preview)
Datasets
DS_source
Output
Data flows
Power Query
Activities
Search activities
Append variable
Delete
Execute Pipeline
Execute SSIS package
Fail
Get Metadata
Lookup
Stored procedure
Script
Set variable
Validation
Web
WebHook
Wait
HDInsight
Iteration & conditionals
Machine Learning
Validate
Debug
Add trigger
Copy data
Copy data1
Get Metadata
Get Metadata1
Set variable
Set variable1
Parameters
Variables
Settings
Output
Pipeline run ID: d45d2417-5ff1-426f-bb88-87c17d7123ea
Pipeline status Succeeded
View debug run consumption
All status
Monitor in Azure Metrics
Export to CSV
Showing 1 - 3 of 3 items
Activity name
Activity status
Activity type
Run start
Duration
Log
Integration runti
Set variable1 Succeeded Set variable 9/6/2023, 2:45:18 PM Less than 1s
Get Metadata1 Succeeded Get Metadata 9/6/2023, 2:45:13 PM 4s AutoResolveInteg
Copy data1 Succeeded Copy data 9/6/2023, 2:45:03 PM 9s AutoResolveInteg

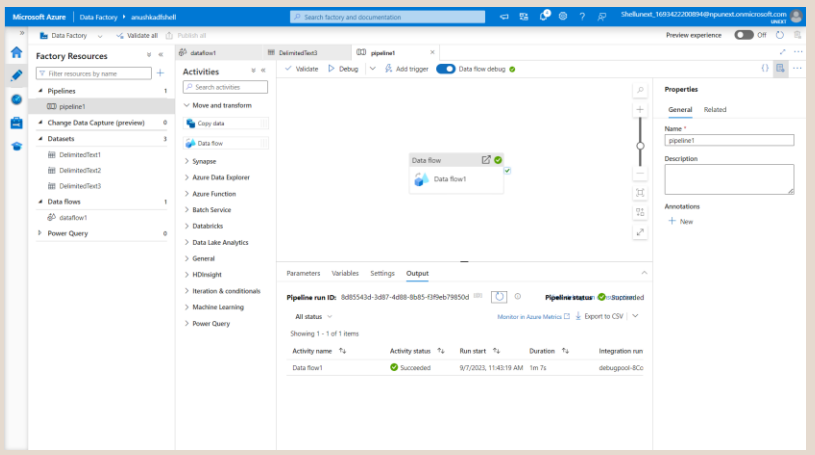

Data Factory
Validate all
Publish all
Preview experience
Off
PL_IDA_01
DS_Source
DS_Destination
PL_IDA_02
Activities
Search activities
Validation
Web
WebHook
Wait
HDInsight
Iteration & conditionals
Filter
ForEach
If Condition
Switch
Until
Validate
Debug
Add trigger
If Condition
Copy Source Data
Get Metadata
Get Metadata1
True
False
Parameters
Variables
Settings
Output
Activity name
Activity status
Activity type
Run start
Duration
Log
Copy data1 Succeeded Copy data 9/6/2023, 2:52:44 PM 10s
Copy Data Condition Succeeded If Condition 9/6/2023, 2:52:43 PM 11s
Get Metadata1 Succeeded Get Metadata 9/6/2023, 2:52:40 PM 2s

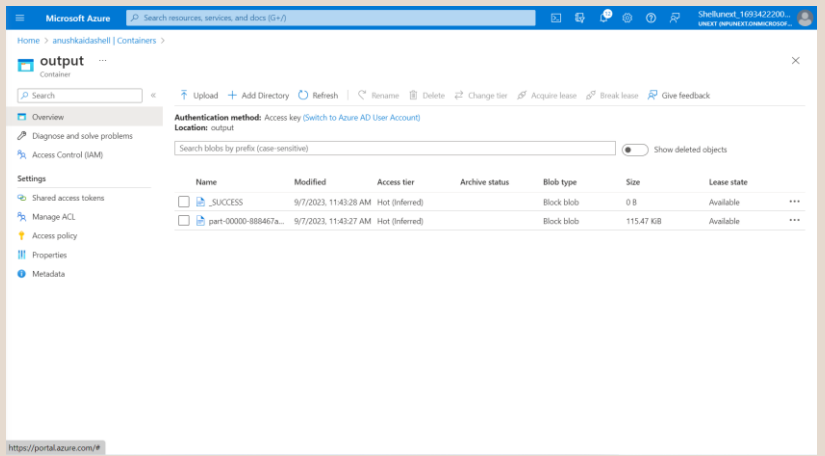
DAY-4

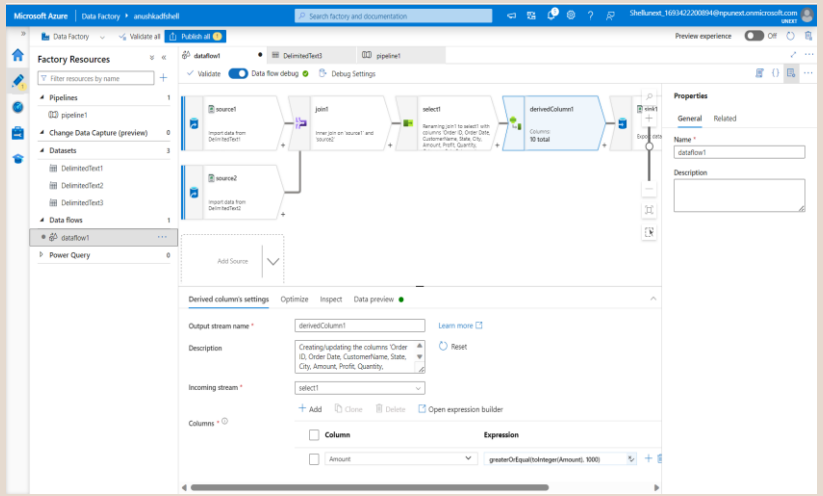
Azure Data Factory - Day 2

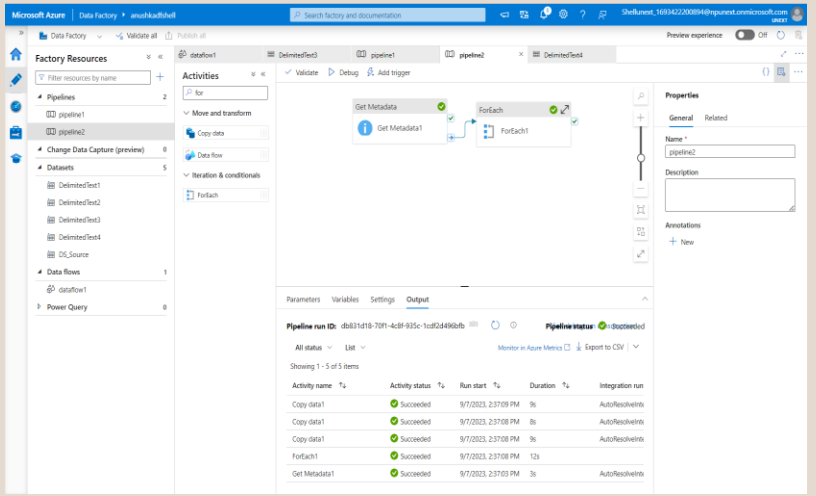
1. Data(resource)transformation Using Data Flow.
2. For Each Activity
3. Data Flows
4. Dataflow Expression Builder And Derived Columns
5. Surrogate Key
6. For Each Container And Get Metadata
7. API

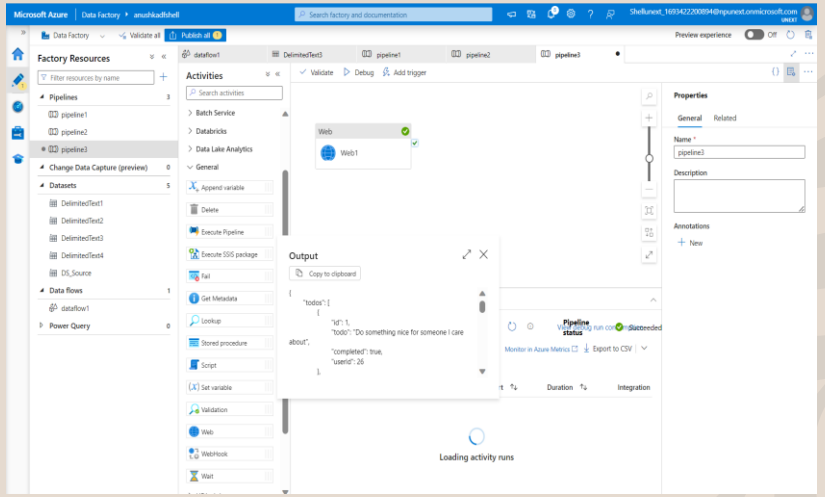


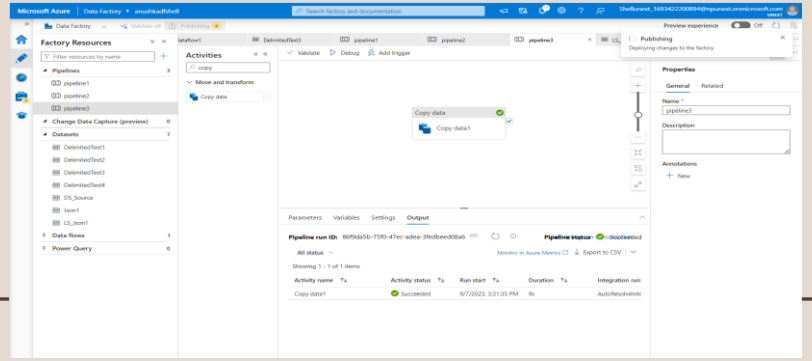












DAY-5

Azure Data Factory - Day 3

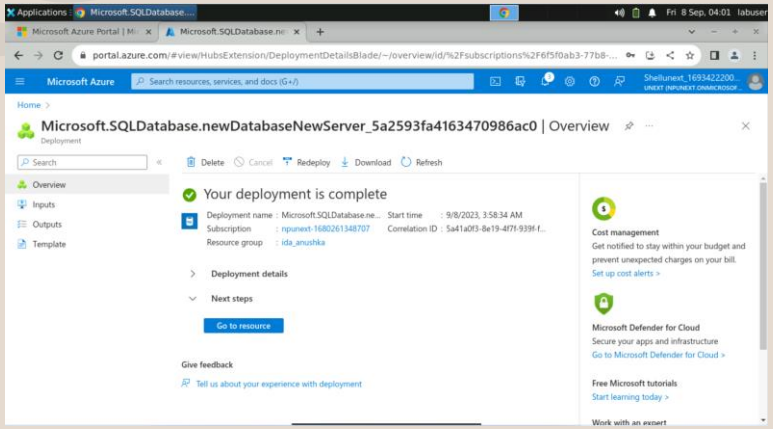
1.Create SQL Database On VM.

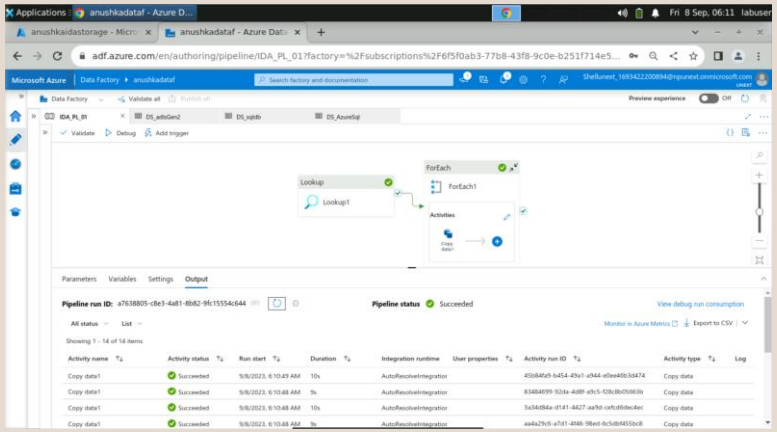
2.Lookup Table In Sql Database

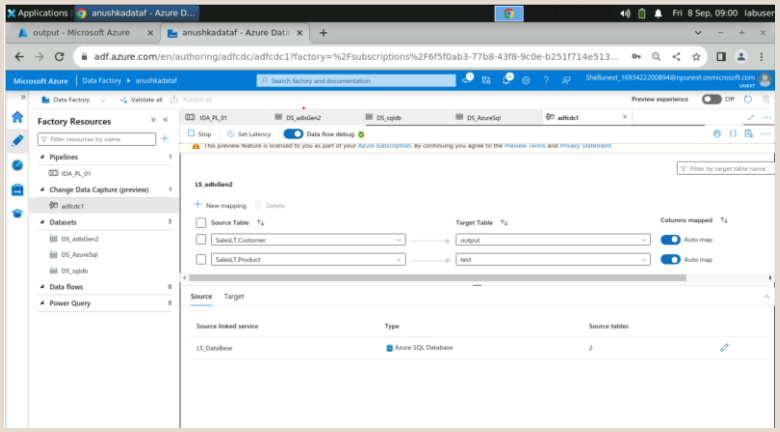
1.Lookup Table With Foreach Pipeline

4.CDC (Change Data Capture)

5.Runbook Or Automation


Microsoft.SQLDatabase.newDatabaseNewServer_5a2593fa4163470986ac0 | Overview
Your deployment is complete
Deployment name : Microsoft.SQLDatabase.ne...
Start time : 9/8/2023, 3:58:34 AM
Subscription : npunext-1680261348707
Correlation ID : 5a41a0f3-8e19-4f7f-939f-f...
Resource group : ida_anushka
Deployment details
Next steps
Go to resource
Give feedback
Tell us about your experience with deployment
Cost management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert


Lookup
ForEach
Parameters
Variables
Settings
Output
Pipeline run ID:
Pipeline status
Succeeded


Factory Resources
Pipelines
Change Data Capture (preview)
Datasets
Data flows
Power Query
Source
Target
Source linked service
Type
Source tables
LS_DataBase
Azure SQL Database

JOURNEY SCRAPBOOK

Custom Bootcamp (29th August – 6th October)

Week-3

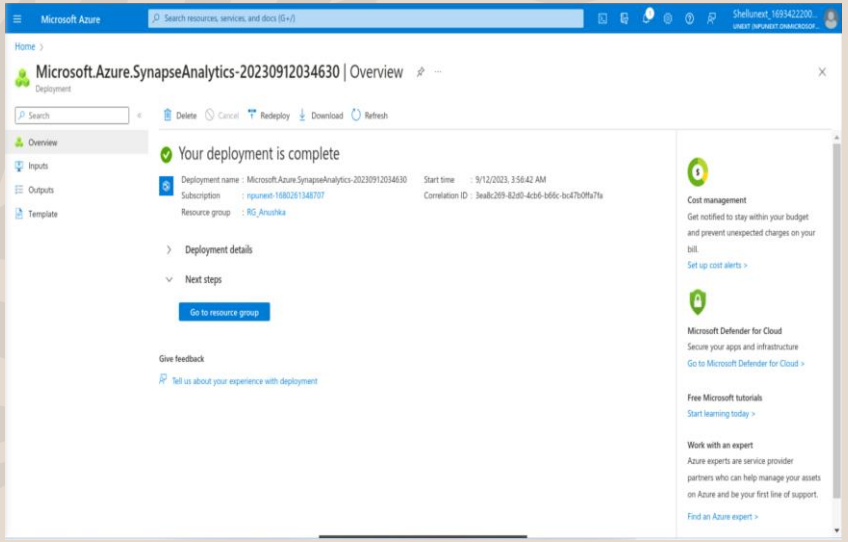
Anushka Dhir

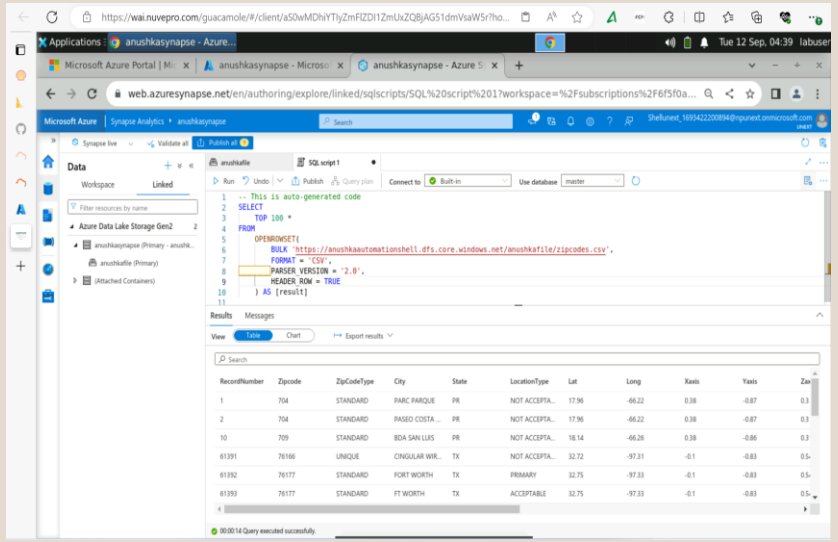
Batch-6

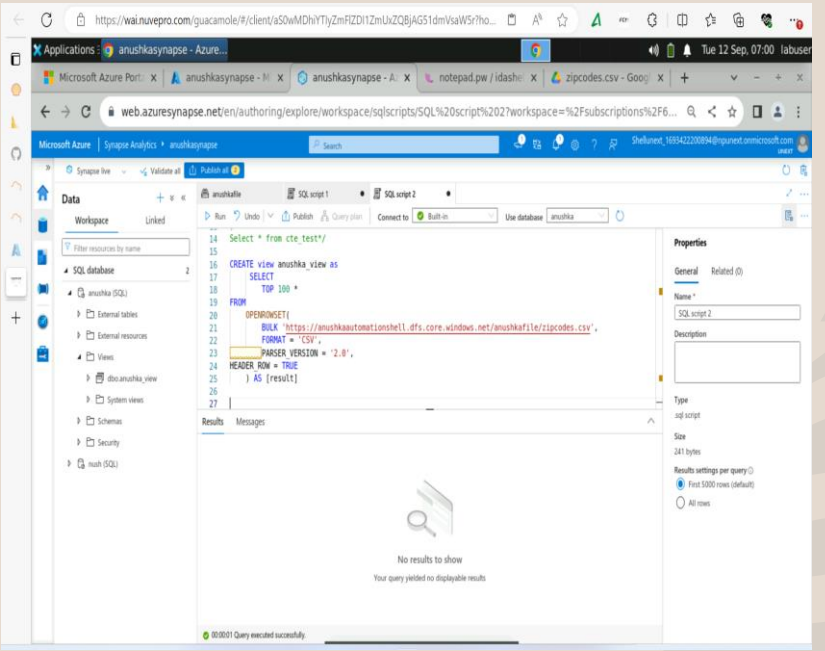
DAY-1

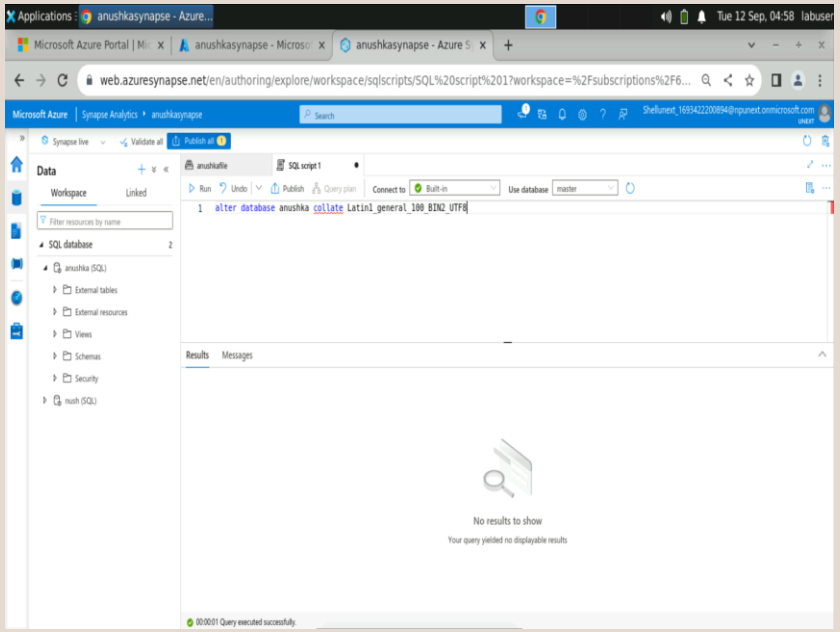
Azure Synapse Analytics

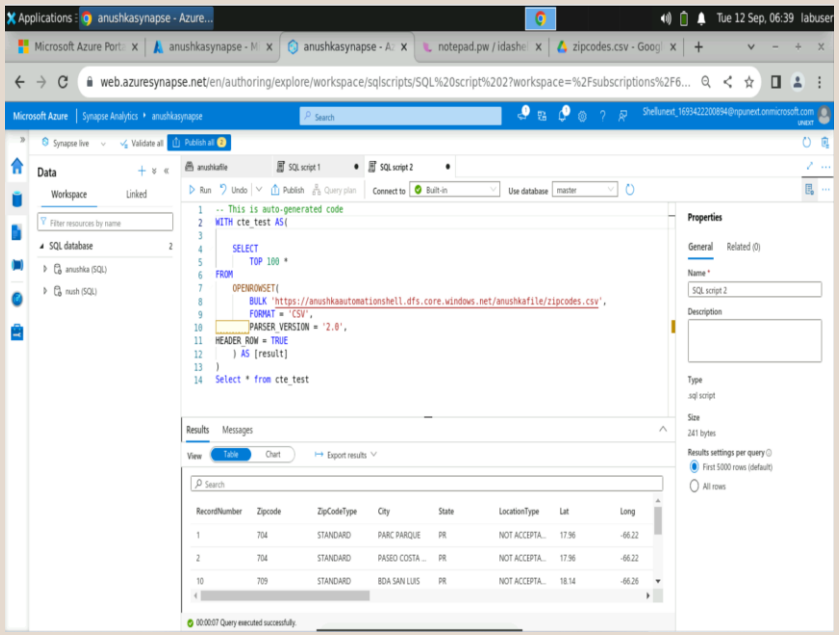
1. Azure Synapse Analytics : Used To Create ADF Services, Spark Notebooks, SQL Data Warehouse
2. SQL Pool
   - Serverless
   - Dedicated Pool
3. Spark Pool
4. Data Exploration
5. SQL Database
6. Collate
7. Common Table Expression (CTE)
8. View
9. DWU (Data Warehousing Unit)
10. Storage Node
11. Compute Node
12. Data Movement Service (DMS)
13. Massive Parallel Processing
14. Replicated Tables
15. Hash Distributed Table
16. Implementing Partitions For An SQL Data Warehouse


Microsoft.Azure.SynapseAnalytics-20230912034630 | Overview
Your deployment is complete
Go to resource group


anushkasynapse - Azure...
Tue 12 Sep, 04:39
web.azuresynapse.net/en/authoring/explore/linked/sqlscripts/SQL%20script%201?workspace=%2Fsubscriptions%2F6f5f0a...
-- This is auto-generated code
SELECT
TOP 100 *
FROM
OPENROWSET(
BULK 'https://anushkaautomationshell.dfs.core.windows.net/anushkafile/zipcodes.csv',
FORMAT = 'CSV',
PARSER_VERSION = '2.0',
HEADER_ROW = TRUE
) AS [result]


anushkasynapse - Azure...
Tue 12 Sep, 07:00
web.azuresynapse.net/en/authoring/explore/workspace/sqlscripts/SQL%20script%202?workspace=%2Fsubscriptions%2F6...
Select * from cte_test*/
CREATE view anushka_view as
SELECT
TOP 100 *
FROM
OPENROWSET(
BULK 'https://anushkaautomationshell.dfs.core.windows.net/anushkafile/zipcodes.csv',
FORMAT = 'CSV',
PARSER_VERSION = '2.0',
HEADER_ROW = TRUE
) AS [result]
No results to show

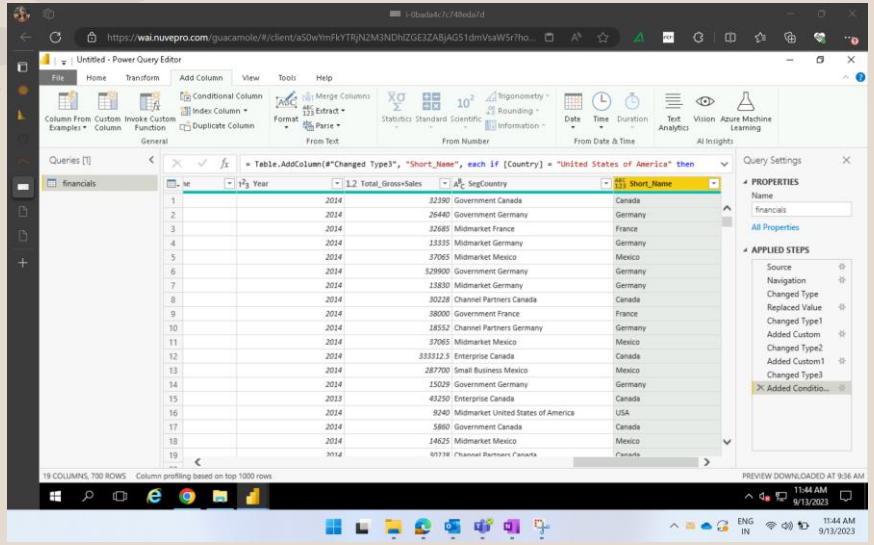

anushkasynapse - Azure...
Tue 12 Sep, 04:58
web.azuresynapse.net/en/authoring/explore/workspace/sqlscripts/SQL%20script%201?workspace=%2Fsubscriptions%2F6...
alter database anushka collate Latin1_general_100_BIN2_UTF8
No results to show
Your query yielded no displayable results

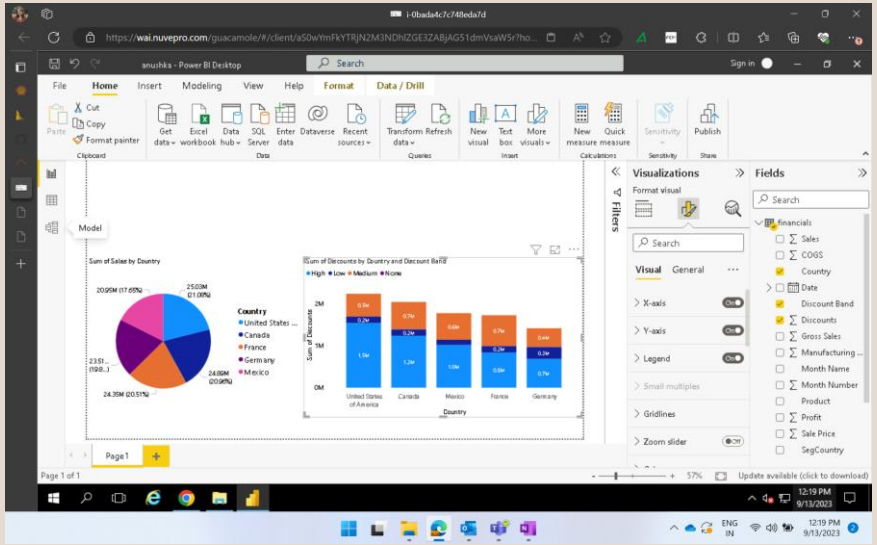

anushkasynapse - Azure...
Tue 12 Sep, 06:39
web.azuresynapse.net/en/authoring/explore/workspace/sqlscripts/SQL%20script%202?workspace=%2Fsubscriptions%2F6...
-- This is auto-generated code
WITH cte_test AS(
SELECT
TOP 100 *
FROM
OPENROWSET(
BULK 'https://anushkaautomationshell.dfs.core.windows.net/anushkafile/zipcodes.csv',
FORMAT = 'CSV',
PARSER_VERSION = '2.0',
HEADER_ROW = TRUE
) AS [result]
)
Select * from cte_test

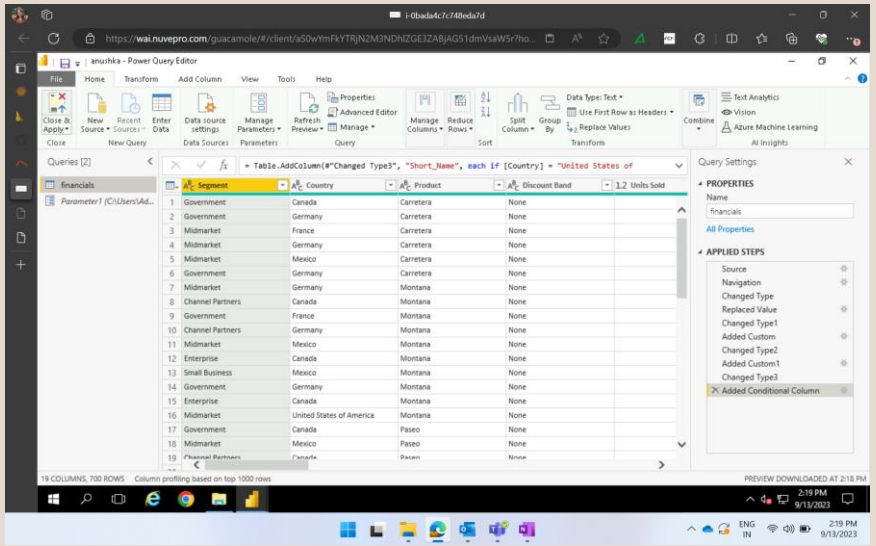
DAY-2

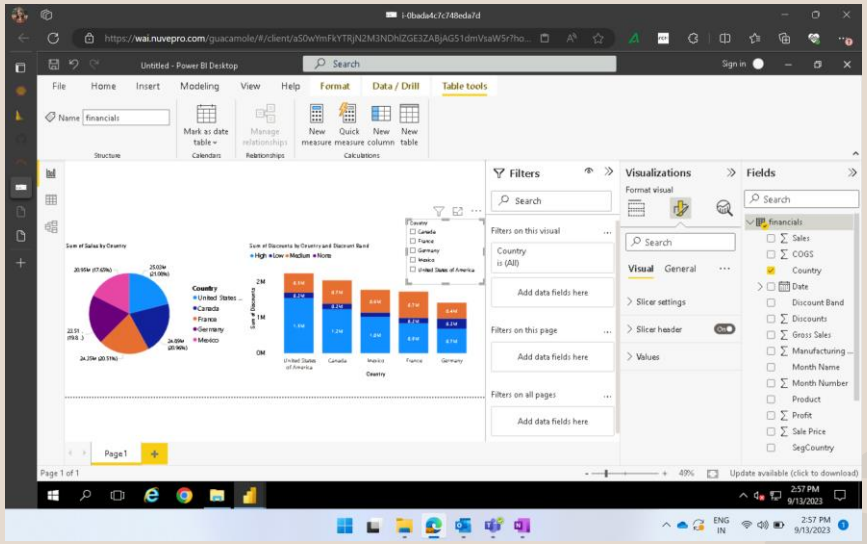
Data Visualization - Power BI

1. PBI Desktop
2. Power BI Supports Multiple Data Connectors.
3. Power Query Editor: Used To Transform Data
    - Language Used At Back-end - M Language
    - Different Fields Of This Editor
4. Get Data In PBI Report And Transform It In Power Query Editor
5. Getting Familiar With Different Visuals
6. Parameter
7. Filters :
    - Visual Level
    - Page Level
    - Report Level
8. Slicers
9. DAX Measures
10. DAX Calculated Columns
11. RLS (Manage Roles)


Untitled - Power Query Editor
Table.AddColumn(#"Changed Type3", "Short_Name", each if [Country] = "United States of America" then


anushka - Power BI Desktop
Visualizations
Fields


anushka - Power Query Editor
Table.AddColumn(#"Changed Type3", "Short_Name", each if [Country] = "United States of


Untitled - Power BI Desktop
Visualizations
Fields

DAY-3

Power BI - Day 2

1.Data Modeling : Establishing Relationships Between Tables

2.Univariant

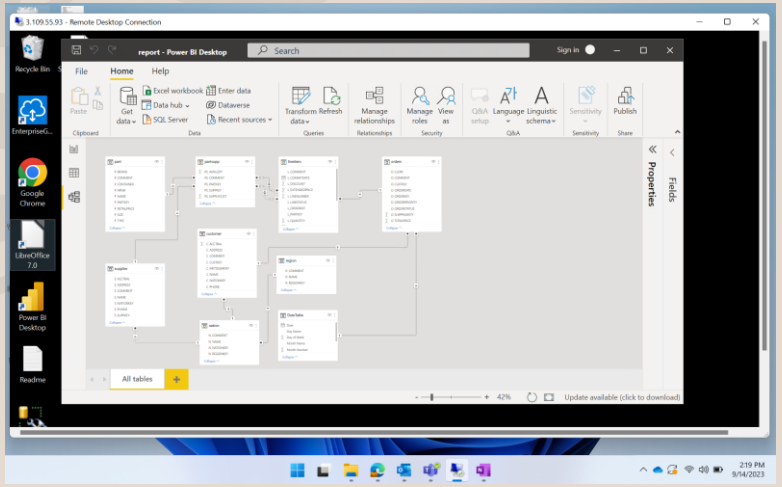
3.Bivariant

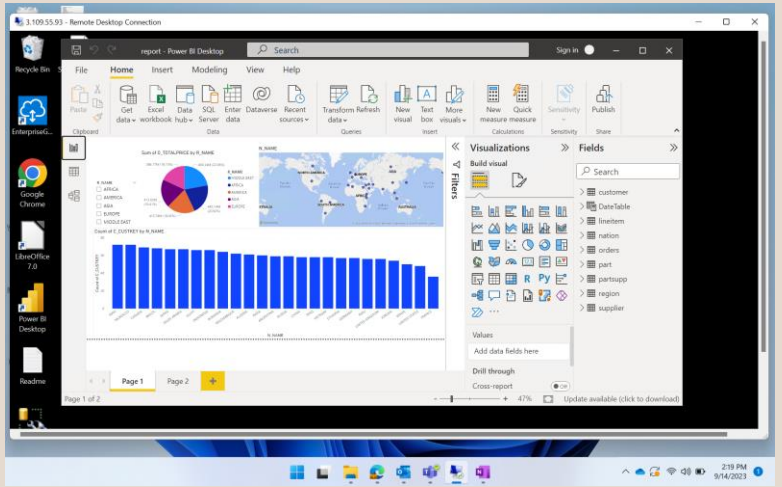
4.Multivariant

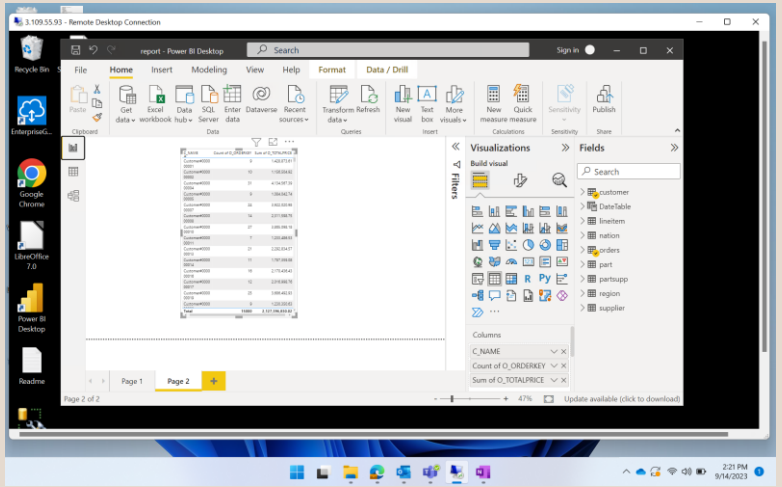
5.Drill Through

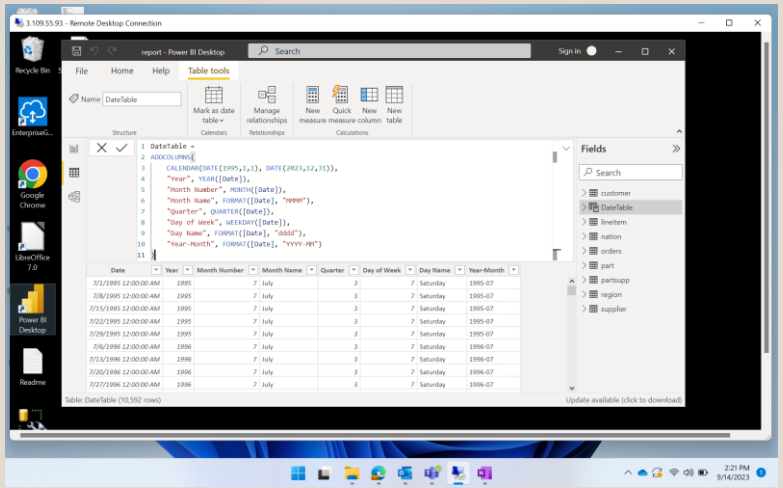
6.Date Table

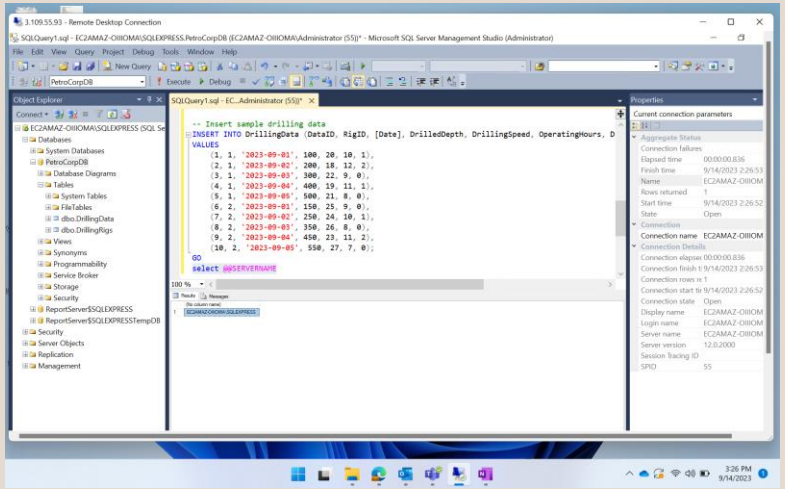
7.Connection Of SQL Server And Power BI

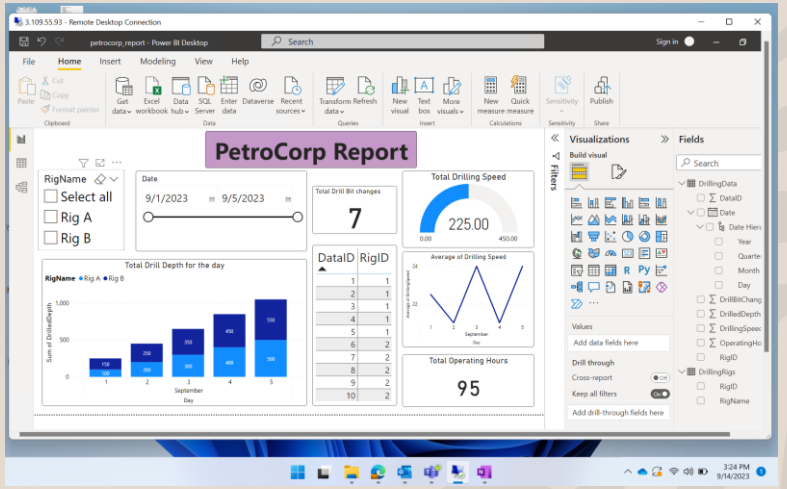












PetroCorp Report

Rig Name

- [ ] Rig A
- [ ] Rig B

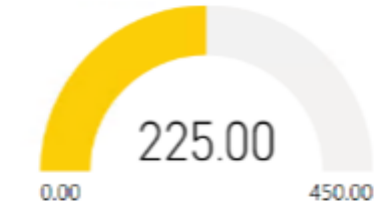
Date

9/1/2023 — 9/5/2023

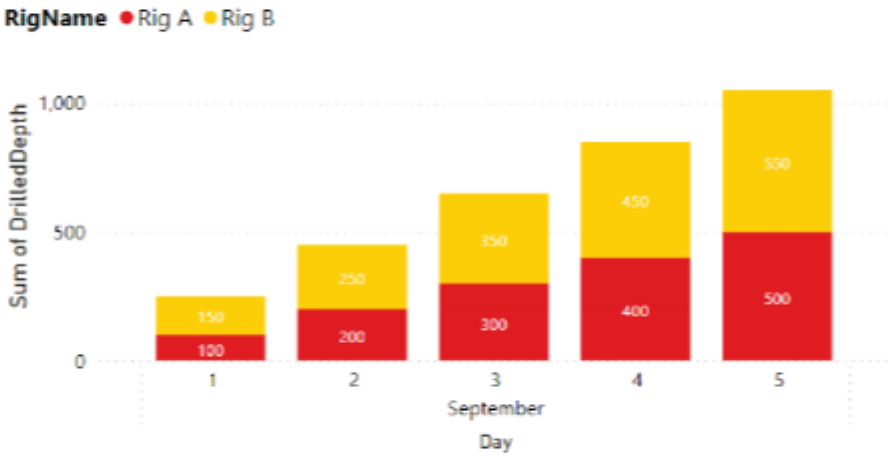
Total Drill Bit changes

7

Total Drilling Speed



Total Drill Depth for the day



DataID	RigID
10	2
9	2
8	2
7	2
6	2
5	1
4	1
3	1
2	1
1	1

Average of Drilling Speed

Total Operating Hours

95

Page 1

Page 1 of 1

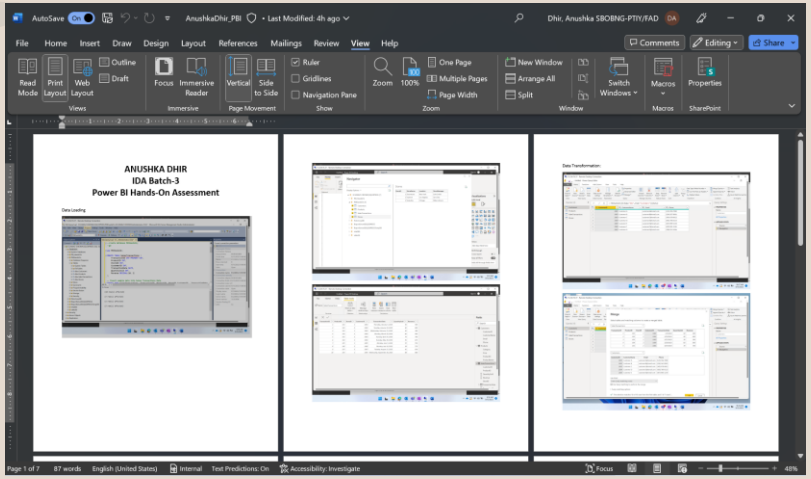
74%

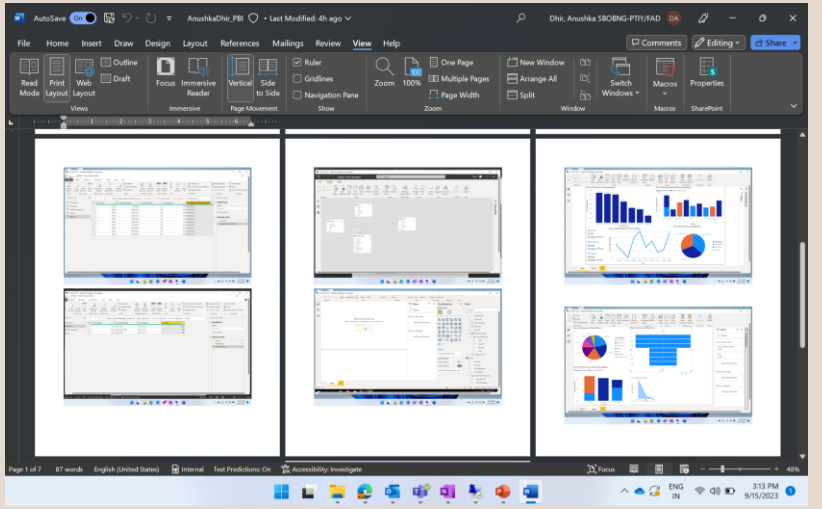
Update available (click to down

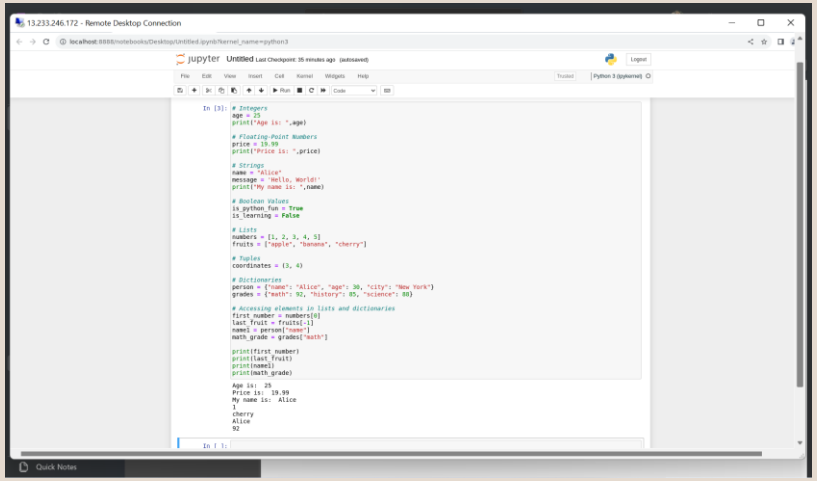
DAY-4

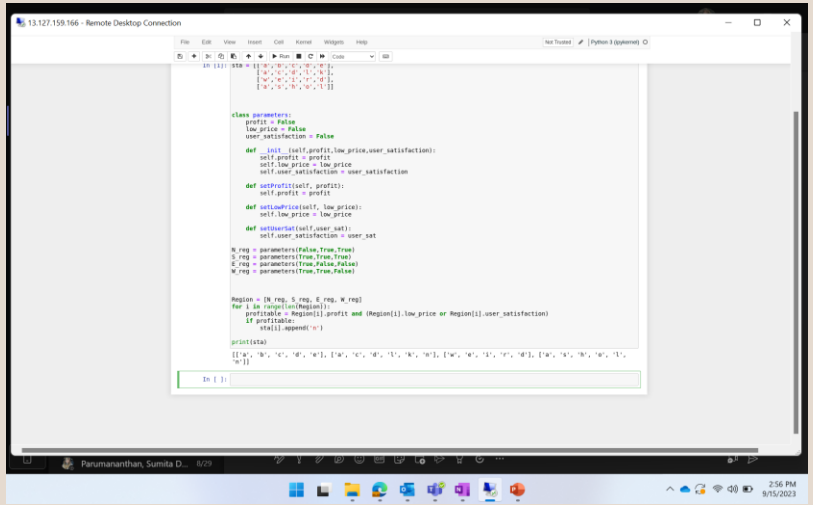
Python – Day 1

1. Hands-on Assessment - Power BI
2. Jupyter Notebook Launch
3. Datatypes In Python:
    - Integer
    - Float
    - String
    - List
    - Dictionary
    - Tuple
    - Boolean
4. Arithmetic
5. Logic


ANUSHKA DHIR
IDA Batch-3
Power BI Hands-On Assessment




13.233.246.172 - Remote Desktop Connection
jupyter Untitled
# Integers
age = 25
print("Age is: ",age)
# Floating-Point Numbers
price = 19.99
print("Price is: ",price)
# Strings
name = "Alice"
message = 'Hello, World!'
print("My name is: ",name)
# Boolean Values
is_python_fun = True
is_learning = False
# Lists
numbers = [1, 2, 3, 4, 5]
fruits = ["apple", "banana", "cherry"]
# Tuples
coordinates = (3, 4)
# Dictionaries
person = {"name": "Alice", "age": 30, "city": "New York"}
grades = {"math": 92, "history": 85, "science": 88}
# Accessing elements in lists and dictionaries
first_number = numbers[0]
last_fruit = fruits[-1]
name1 = person["name"]
math_grade = grades["math"]
print(first_number)
print(last_fruit)
print(name1)
print(math_grade)
Age is: 25
Price is: 19.99
My name is: Alice
1
cherry
Alice
92


13.127.159.166 - Remote Desktop Connection

JOURNEY SCRAPBOOK

Custom Bootcamp (29th August – 6th October)

Week-4

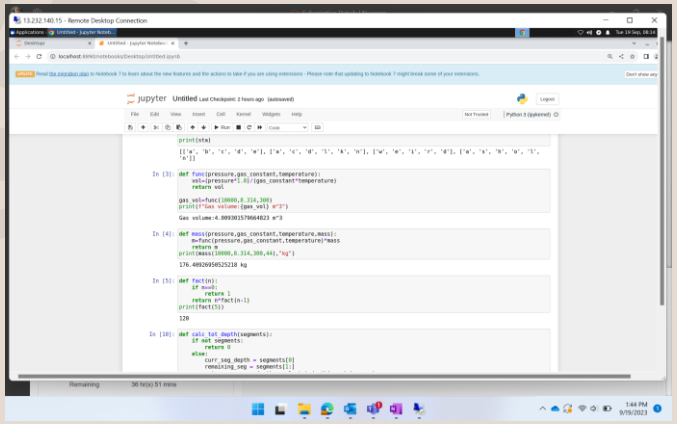
Anushka Dhir

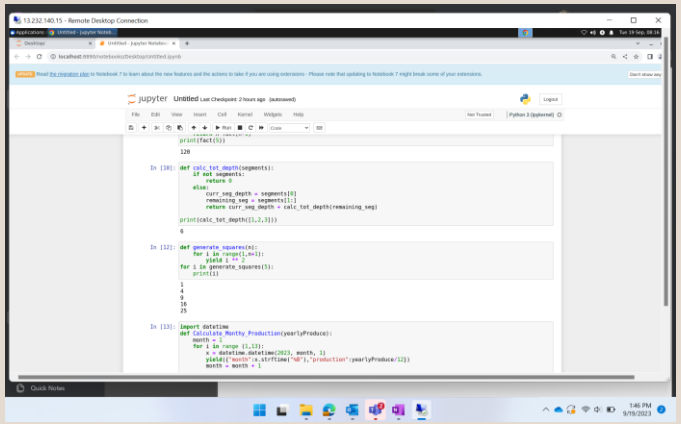
Batch-6

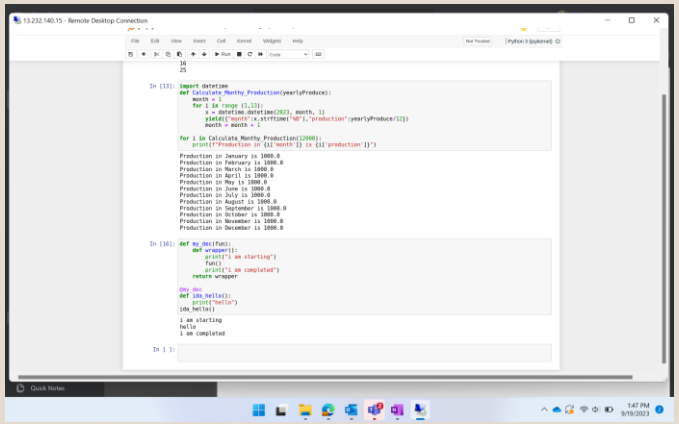
DAY-1

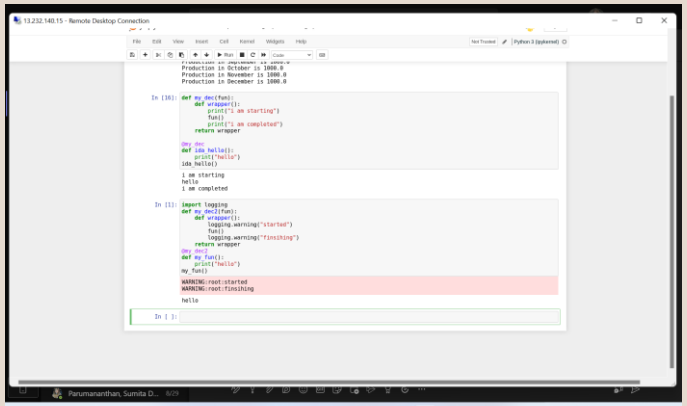
Python – Day 2

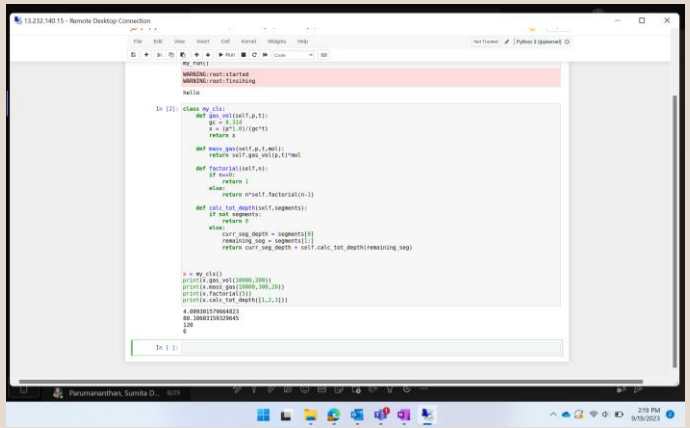
1. Function
2. Function Composition
3. Recursive Function
4. Generator Function
5. Decorator (Wrap Function)
6. Types Of Argument
7. Class
8. Date Stripping
9. Date Conversion
10. Exception Handling
11. List Comprehension
12. Lambda Function

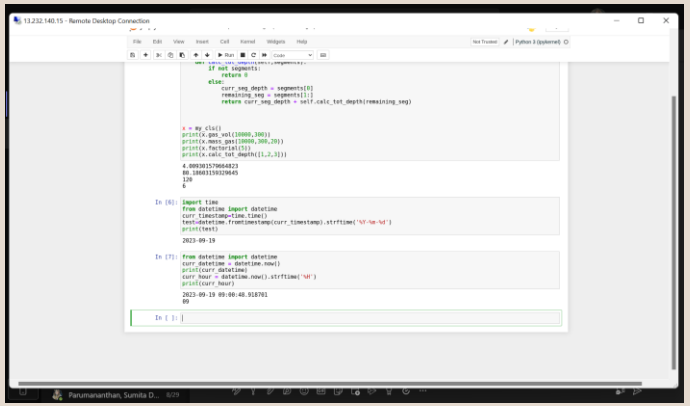






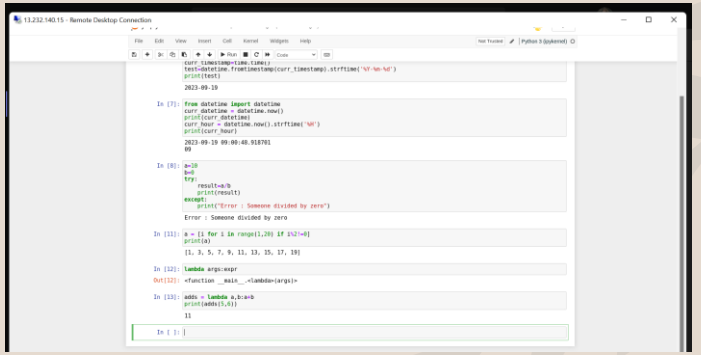






```
09

In [8]: a=10
        b=0
        try:
            result=a/b
            print(result)
        except:
            print("Error : Someone divided by zero")

        Error : Someone divided by zero

In [ ]:
```

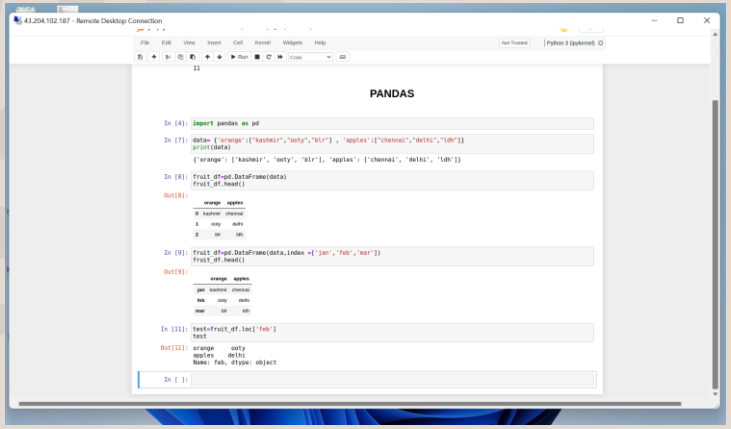
```
In [10]: a = [i**2 for i in range(1,6)]
         print(a)

         [1, 4, 9, 16, 25]
```

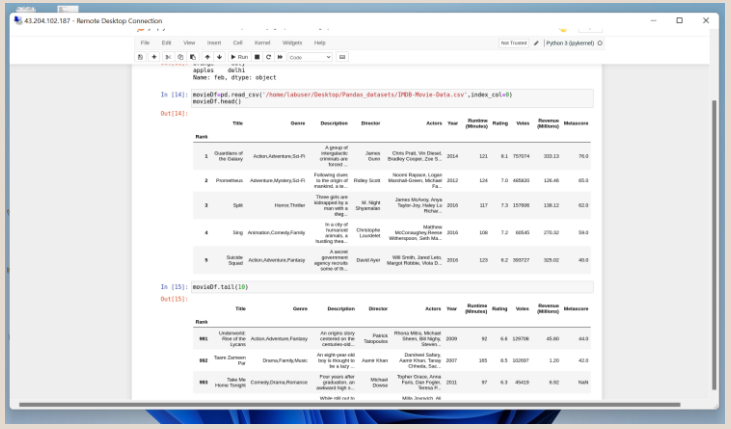


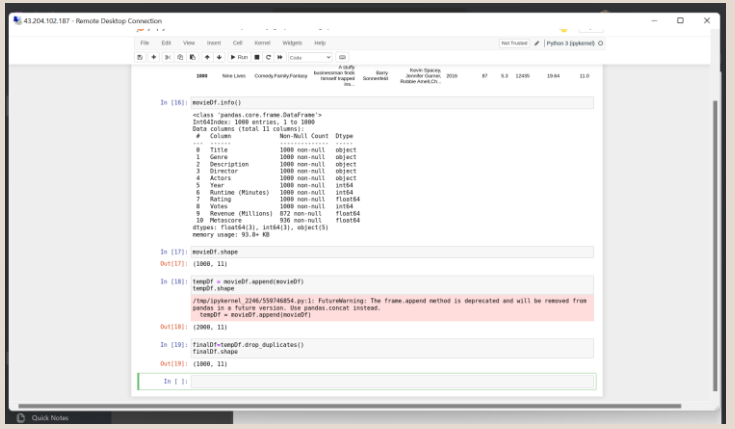
DAY-2

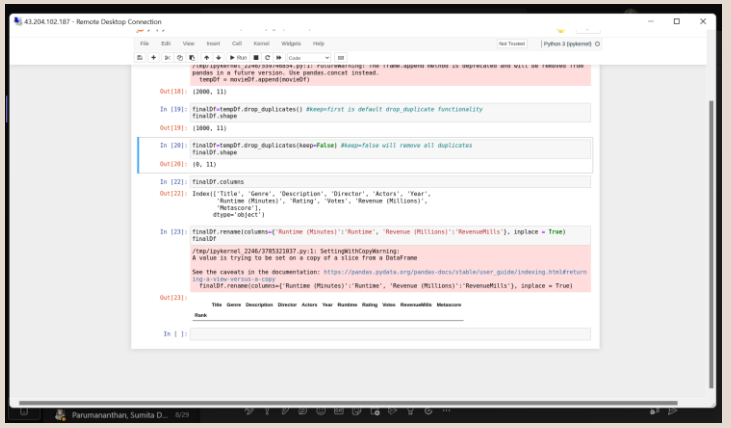
Python – Day 3

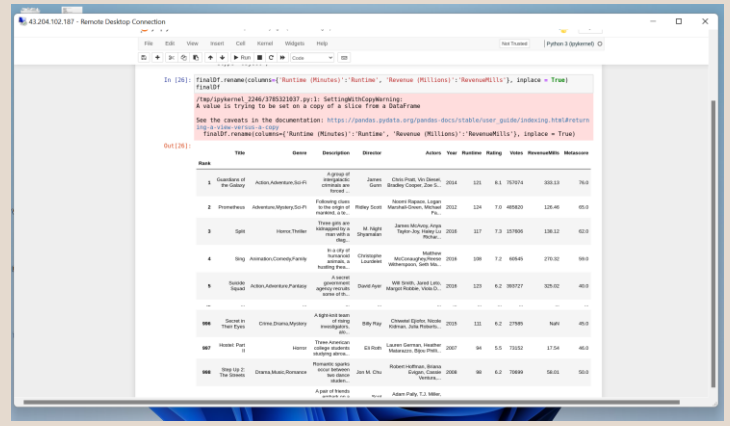
1. Pandas : Panel Datasets
    a. Dataframe
    b. Functions on dataframe
    c. Changing column to lowercase
    d. Dropping Null Values
    e. Dropping columns with Null Values
    f. Filling null values
    g. Describe columns
    h. Value counts()
    i. Selected rows or columns of dataframe
    j. Conditional selection
2. Matplotlib
3. Arrays In Python

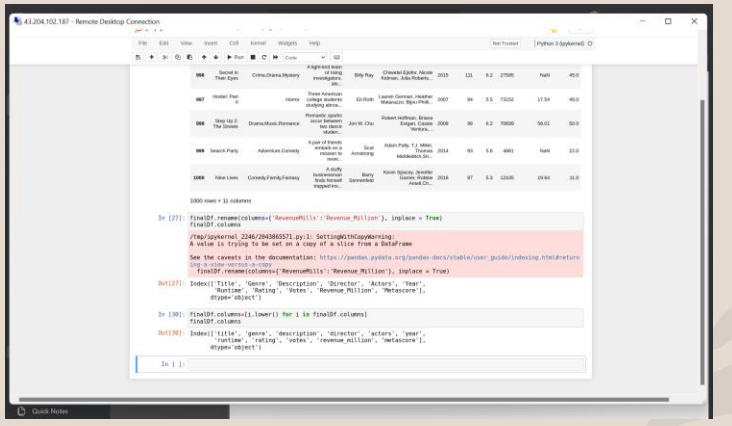

43.204.102.187 - Remote Desktop Connection
PANDAS
In [4]: import pandas as pd
In [7]: data= {'orange':['kashmir','ooty','blr'] , 'apples':['chennai','delhi','ldh']}
print(data)
{'orange': ['kashmir', 'ooty', 'blr'], 'apples': ['chennai', 'delhi', 'ldh']}
In [8]: fruit_df=pd.DataFrame(data)
fruit_df.head()
Out[8]:
orange apples
0 kashmir chennai
1 ooty delhi
2 blr ldh
In [9]: fruit_df=pd.DataFrame(data,index ='jan','feb','mar'])
fruit_df.head()
Out[9]:
orange apples
jan kashmir chennai
feb ooty delhi
mar blr ldh
In [11]: test=fruit_df.loc['feb']
test
Out[11]: orange ooty
apples delhi
Name: feb, dtype: object

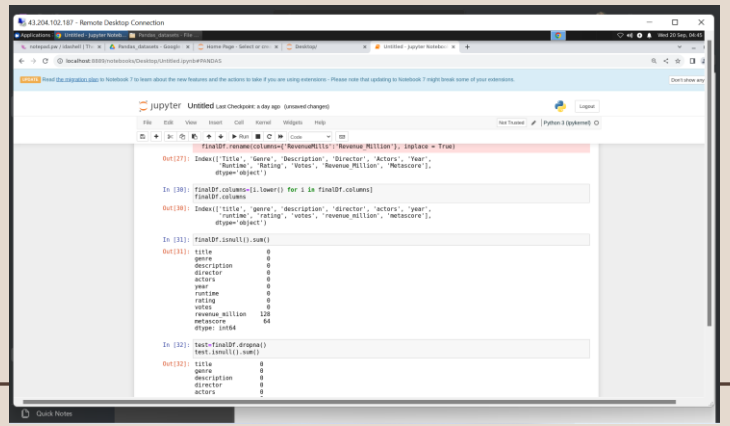

43.204.102.187 - Remote Desktop Connection
In [14]: movieDf=pd.read_csv('/home/labuser/Desktop/Pandas_datasets/IMDB-Movie-Data.csv',index_col=0)
movieDf.head()
In [15]: movieDf.tail(10)

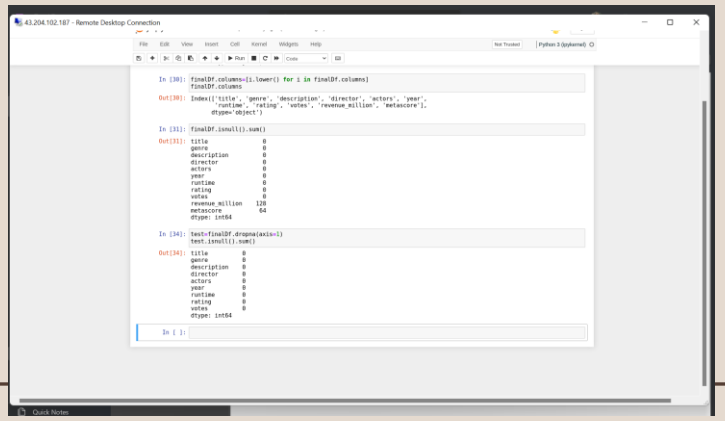

43.204.102.187 - Remote Desktop Connection
In [16]: movieDf.info()
In [17]: movieDf.shape
Out[17]: (1000, 11)
In [18]: tempDf = movieDf.append(movieDf)
tempDf.shape
In [19]: finalDf=tempDf.drop_duplicates()
finalDf.shape
Out[19]: (1000, 11)

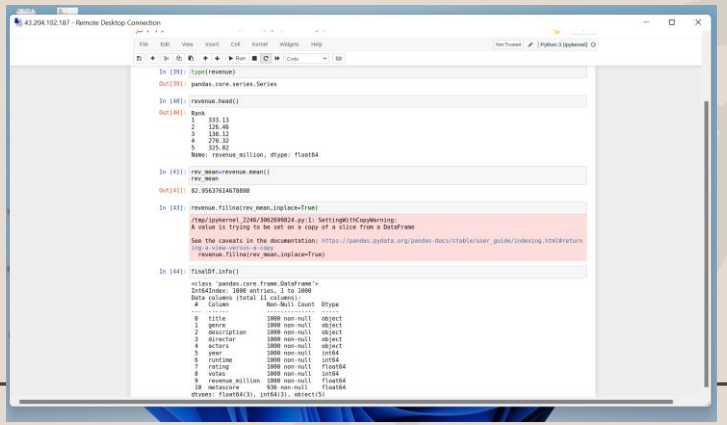

43.204.102.187 - Remote Desktop Connection
Out[18]: (2000, 11)
In [19]: finalDf=tempDf.drop_duplicates() #keep=first is default drop_duplicate functionality
finalDf.shape
Out[19]: (1000, 11)
In [20]: finalDf=tempDf.drop_duplicates(keep=False) #keep=false will remove all duplicates
finalDf.shape
Out[20]: (0, 11)
In [22]: finalDf.columns
In [23]: finalDf.rename(columns={'Runtime (Minutes)':'Runtime', 'Revenue (Millions)':'RevenueMills'}, inplace = True)
finalDf

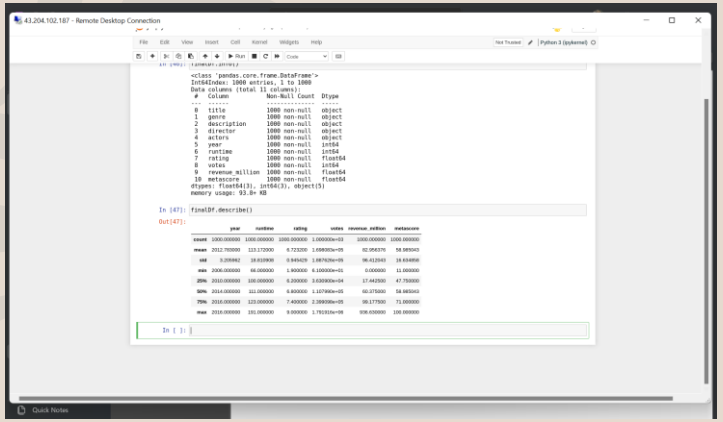

43.204.102.187 - Remote Desktop Connection
In [26]: finalDf.rename(columns={'Runtime (Minutes)':'Runtime', 'Revenue (Millions)':'RevenueMills'}, inplace = True)
finalDf
Out[26]:

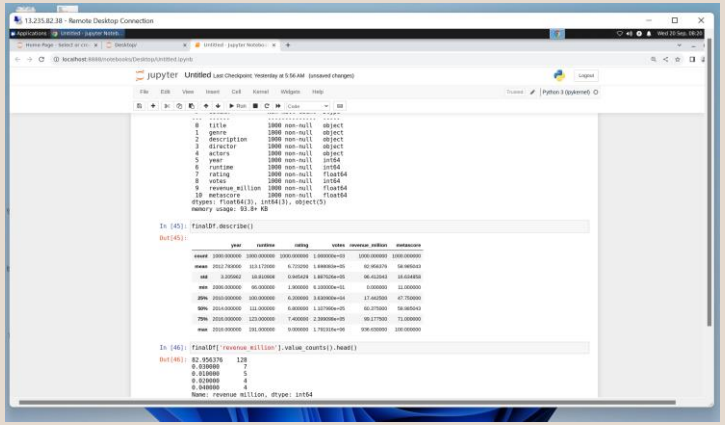

43.204.102.187 - Remote Desktop Connection
In [27]: finalDf.rename(columns={'RevenueMills':'Revenue_Million'}, inplace = True)
finalDf.columns
In [30]: finalDf.columns=[i.lower() for i in finalDf.columns]
finalDf.columns

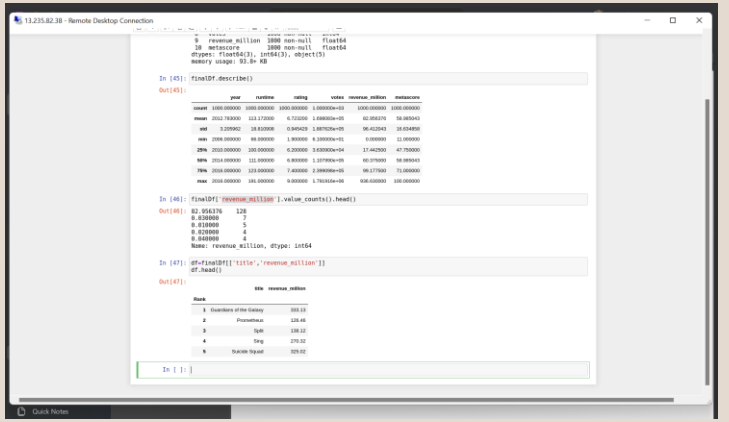

43.204.102.187 - Remote Desktop Connection
jupyter Untitled
In [31]: finalDf.isnull().sum()
In [32]: test=finalDf.dropna()
test.isnull().sum()

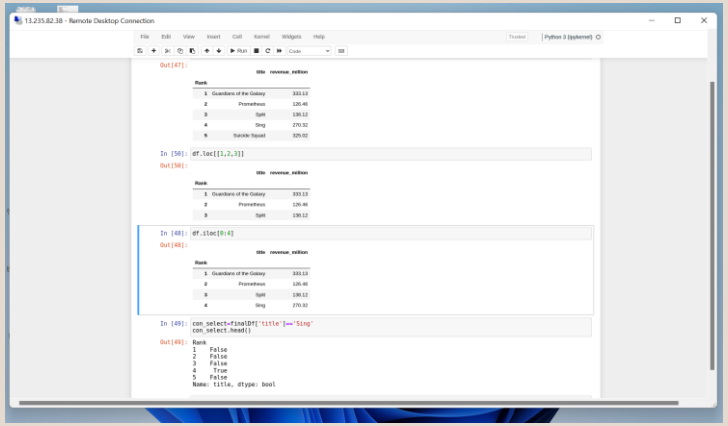

43.204.102.187 - Remote Desktop Connection
In [34]: test=finalDf.dropna(axis=1)
test.isnull().sum()

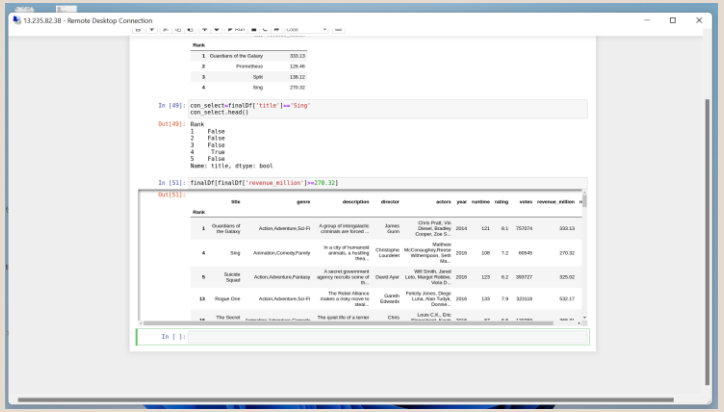

43.204.102.187 - Remote Desktop Connection
In [39]: type(revenue)
Out[39]: pandas.core.series.Series
In [40]: revenue.head()
In [41]: rev_mean=revenue.mean()
rev_mean
In [43]: revenue.fillna(rev_mean,inplace=True)
In [44]: finalDf.info()

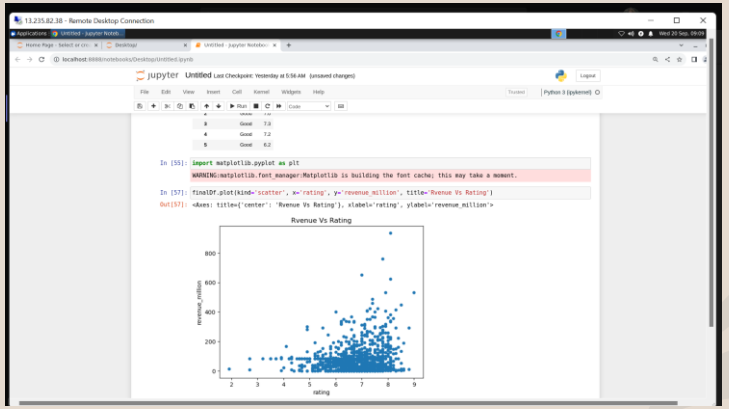

43.204.102.187 - Remote Desktop Connection


13.235.82.38 - Remote Desktop Connection


13.235.82.38 - Remote Desktop Connection


13.235.82.38 - Remote Desktop Connection

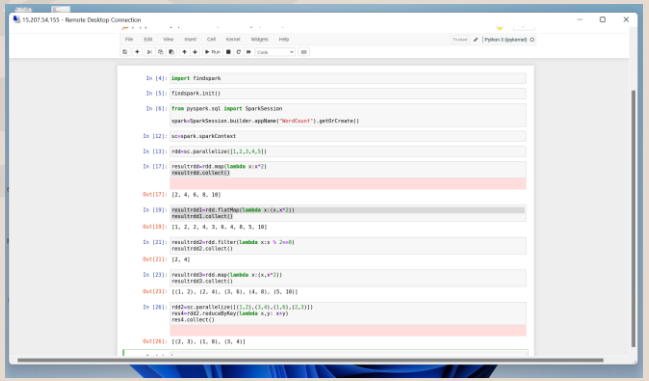

13.235.82.38 - Remote Desktop Connection

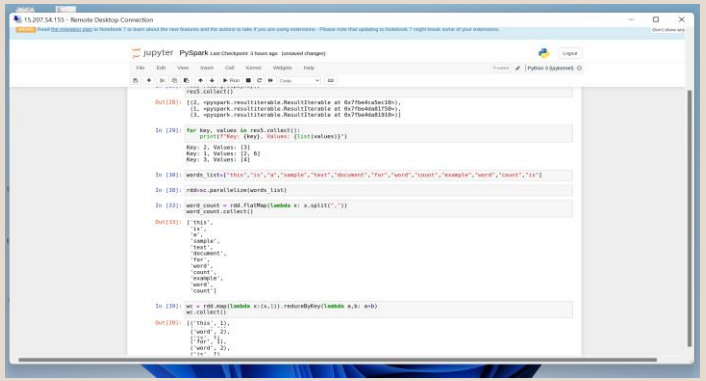

13.235.82.38 - Remote Desktop Connection
Revenue Vs Rating

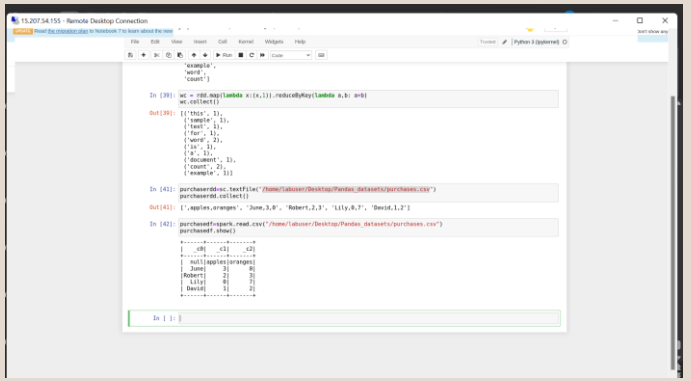
DAY-3

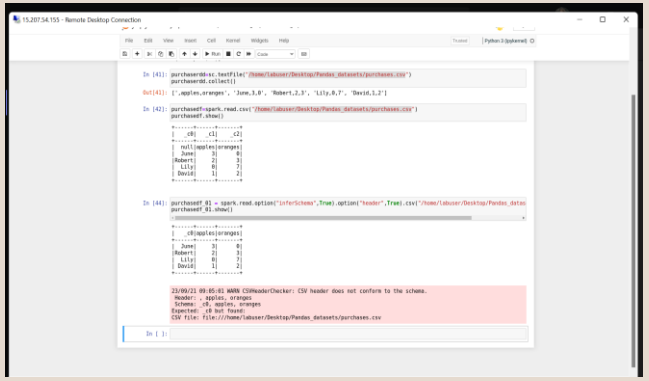
Apache PySpark – Day 1

1. Driver process
2. Executors
3. Cluster Manager
4. Partition
5. Job, Stage and Task
6. Lazy Evaluation
7. RDD (Resilient Distributed Dataset)
8. Caching
9. Catalyst and Tungsten
10. RDD vs Dataframe
11. Deployment Types
    1. Client Mode
    2. Cluster Mode


15.207.54.155 - Remote Desktop Connection
In [4]: import findspark
In [5]: findspark.init()
In [6]: from pyspark.sql import SparkSession
spark=SparkSession.builder.appName("WordCount").getOrCreate()
In [12]: sc=spark.sparkContext
In [13]: rdd=sc.parallelize([1,2,3,4,5])
In [17]: resultrdd=rdd.map(lambda x:x*2)
resultrdd.collect()
Out[17]: [2, 4, 6, 8, 10]
In [19]: resultrdd1=rdd.flatMap(lambda x:(x,x*2))
resultrdd1.collect()
Out[19]: [1, 2, 2, 4, 3, 6, 4, 8, 5, 10]
In [21]: resultrdd2=rdd.filter(lambda x:x % 2==0)
resultrdd2.collect()
Out[21]: [2, 4]
In [23]: resultrdd3=rdd.map(lambda x:(x,x*2))
resultrdd3.collect()
Out[23]: [(1, 2), (2, 4), (3, 6), (4, 8), (5, 10)]
In [26]: rdd2=sc.parallelize([(1,2),(3,6),(1,4),(2,3)])
res4=rdd2.reduceByKey(lambda x,y: x+y)
res4.collect()
Out[26]: [(2, 3), (1, 8), (3, 4)]


15.207.54.155 - Remote Desktop Connection
jupyter PySpark Last Checkpoint: 3 hours ago (unsaved changes)
Logout
Out[28]: [(2, <pyspark.resultiterable.ResultIterable at 0x7fbe4ca3ac10>),
(1, <pyspark.resultiterable.ResultIterable at 0x7fbe4da08170>),
(3, <pyspark.resultiterable.ResultIterable at 0x7fbe4da01010>)]
In [29]: for key, values in res5.collect():
print(f"Key: {key}, Values: {list(values)}")
Key: 2, Values: [3]
Key: 1, Values: [2, 6]
Key: 3, Values: [4]
In [30]: words_lists=["this","is","a","sample","text","document","for","word","count","example","word","count","is"]
In [38]: rdd=sc.parallelize(words_list)
In [33]: word_count = rdd.flatMap(lambda x: x.split(","))
word_count.collect()
Out[33]: ['this',
'is',
'a',
'sample',
'text',
'document',
'for',
'word',
'count',
'example',
'word',
'count']
In [39]: wc = rdd.map(lambda x:(x,1)).reduceByKey(lambda a,b: a+b)
wc.collect()
Out[39]: [('this', 1),
('is', 1),
('text', 1),
('for', 1),
('word', 2),
('is', 1),
('a', 1),
('document', 1),
('count', 2),
('example', 1)]

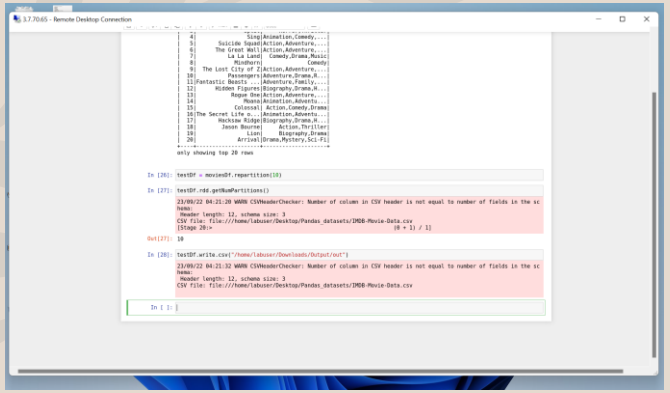

15.207.54.155 - Remote Desktop Connection
'example',
'word',
'count']
In [39]: wc = rdd.map(lambda x:(x,1)).reduceByKey(lambda a,b: a+b)
wc.collect()
Out[39]: [('this', 1),
('is', 1),
('text', 1),
('for', 1),
('word', 2),
('is', 1),
('a', 1),
('document', 1),
('count', 2),
('example', 1)]
In [41]: purchasesrdd=sc.textFile("/home/labuser/Desktop/Pandas_datasets/purchases.csv")
purchasesrdd.collect()
Out[41]: [',apples,oranges', 'June,3,0', 'Robert,2,3', 'Lily,0,7', 'David,1,2']
In [42]: purchasesdf=spark.read.csv("/home/labuser/Desktop/Pandas_datasets/purchases.csv")
purchasesdf.show()
+-----+----+-------+
| _c0| _c1| _c2|
+-----+----+-------+
| null|apples|oranges|
| June| 3| 0|
|Robert| 2| 3|
| Lily| 0| 7|
|David| 1| 2|
+-----+----+-------+
In [ ]:

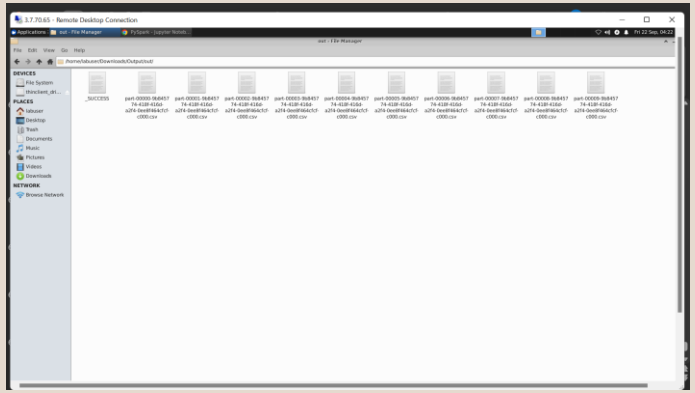

15.207.54.155 - Remote Desktop Connection
In [41]: purchasesrdd=sc.textFile("/home/labuser/Desktop/Pandas_datasets/purchases.csv")
purchasesrdd.collect()
Out[41]: [',apples,oranges', 'June,3,0', 'Robert,2,3', 'Lily,0,7', 'David,1,2']
In [42]: purchasesdf=spark.read.csv("/home/labuser/Desktop/Pandas_datasets/purchases.csv")
purchasesdf.show()
+-----+----+-------+
| _c0| _c1| _c2|
+-----+----+-------+
| null|apples|oranges|
| June| 3| 0|
|Robert| 2| 3|
| Lily| 0| 7|
|David| 1| 2|
+-----+----+-------+
In [44]: purchasesdf_01 = spark.read.option("inferSchema",True).option("header",True).csv("/home/labuser/Desktop/Pandas_datas
purchasesdf_01.show()
+-----+----+-------+
| _c0|apples|oranges|
+-----+----+-------+
| June| 3| 0|
|Robert| 2| 3|
| Lily| 0| 7|
|David| 1| 2|
+-----+----+-------+
23/09/21 09:05:01 WARN CSVHeaderChecker: CSV header does not conform to the schema.
Header: , apples, oranges
Schema: _c0, apples, oranges
Expected: _c0 but found:
CSV file: file:///home/labuser/Desktop/Pandas_datasets/purchases.csv
In [ ]:

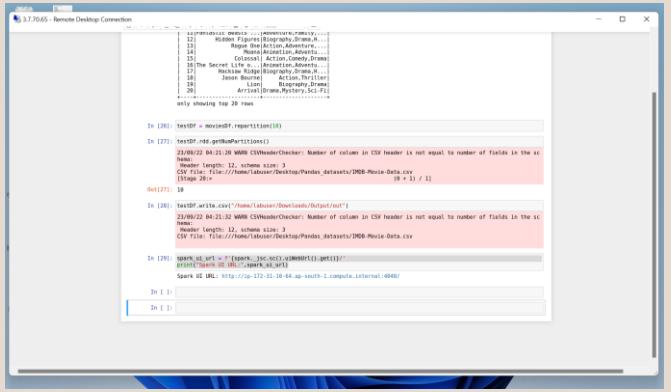
DAY-4

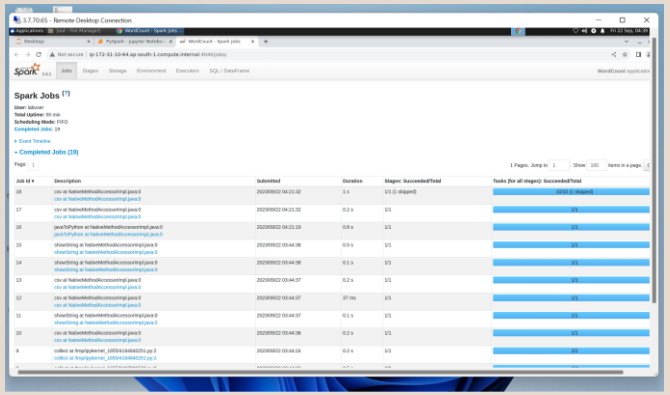
Apache PySpark – Day 2

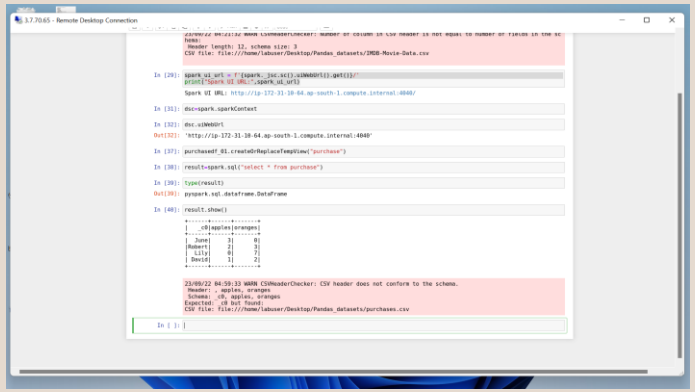
1. Partitioning
2. Spark UI URL
3. SQL in PySpark
4. Drop duplicates
5. When – Otherwise condition
6. Concat and Functions
7. Caching
8. Joins
9. Group By

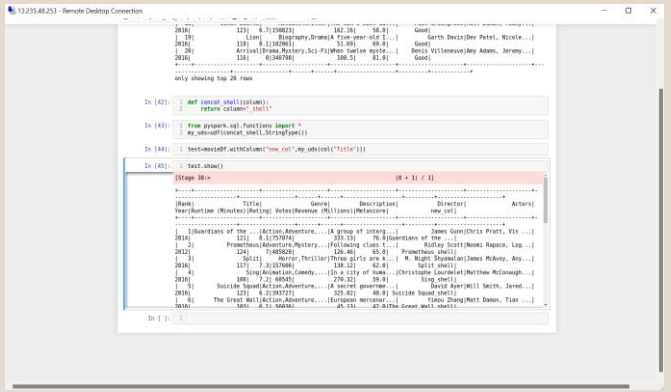


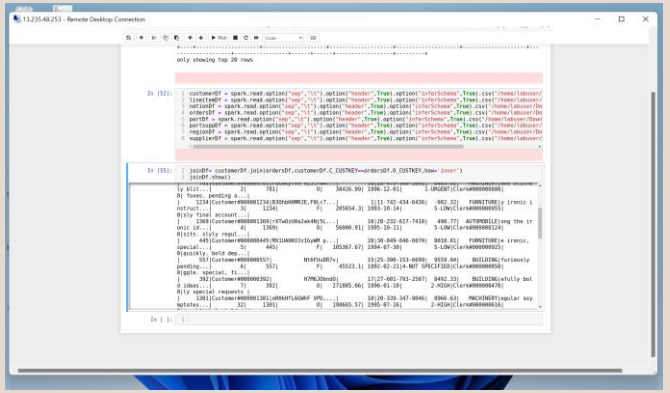


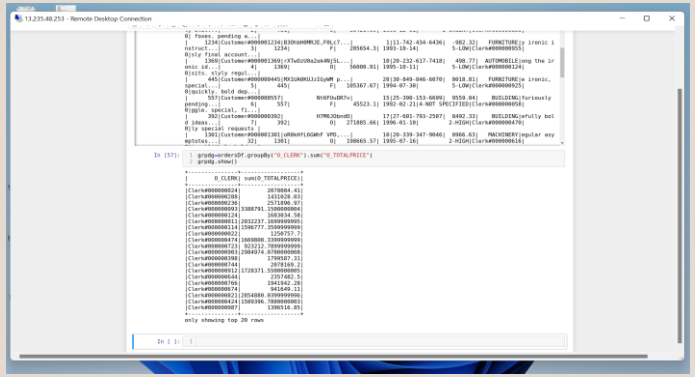












JOURNEY SCRAPBOOK

Custom Bootcamp (29th August – 6th October)

Week-5

Anushka Dhir

Batch-6

DAY-1

Apache PySpark – Day 3

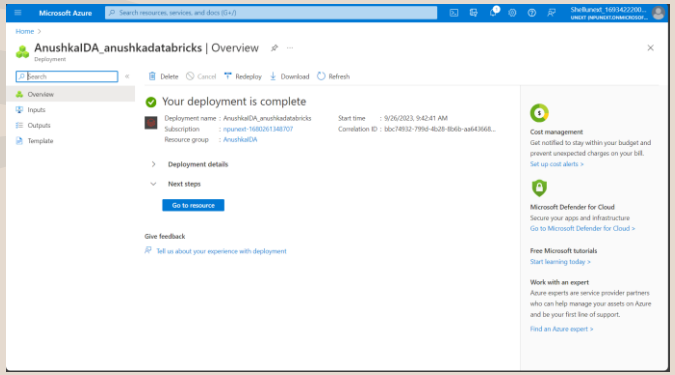
1. Caching
2. Persist and different storage levels
3. Aggregation
4. Managed and External Tables
5. Partitioning
6. For-Each

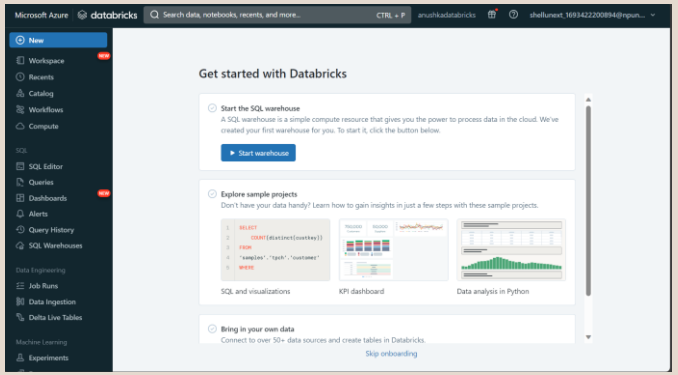
** Note : Only 4 hours training due to OneIDA event. **

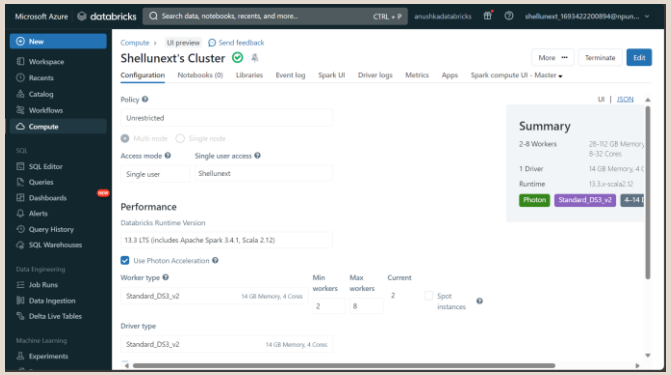
DAY-2

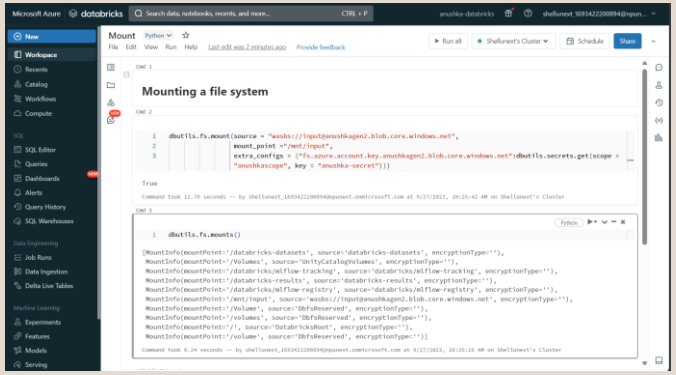
Azure Databricks – Day 1

1. What is databricks?
2. Setting Up azure databricks
3. Overview of Databricks Workspace
4. Cluster configuration
5. Mounting
6. Widgets
7. Parameters
8. Functions
9. %run, %md, %language
10. Structured streaming


AnushkaIDA_anushkadatabricks | Overview
Your deployment is complete
Deployment details
Next steps
Go to resource
Give feedback


Get started with Databricks
Start the SQL warehouse
Start warehouse
Explore sample projects
Bring in your own data
Skip onboarding

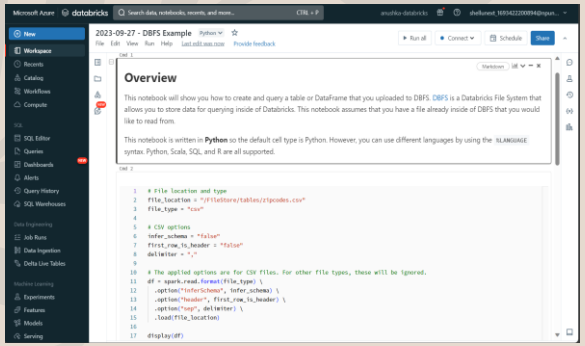

Shellunext's Cluster
Summary
Performance

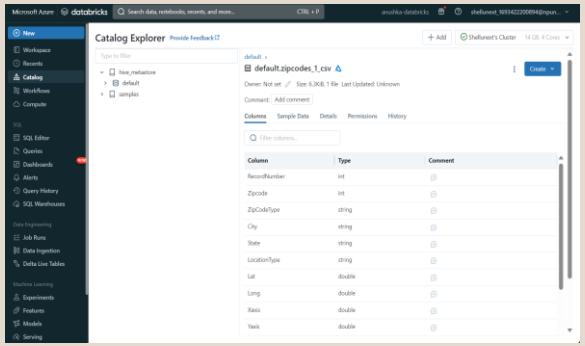

Mount
Mounting a file system
dbutils.fs.mount(source = "wasbs://input@anushkagen2.blob.core.windows.net",
dbutils.fs.mounts()

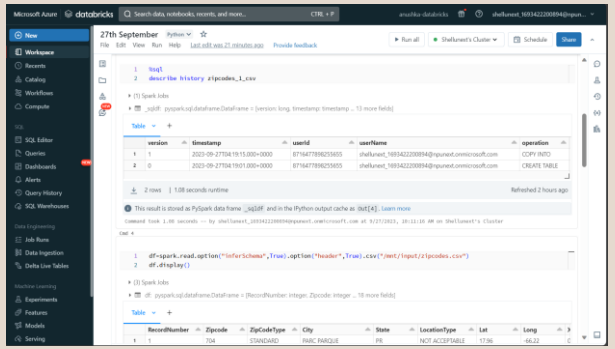
DAY-3

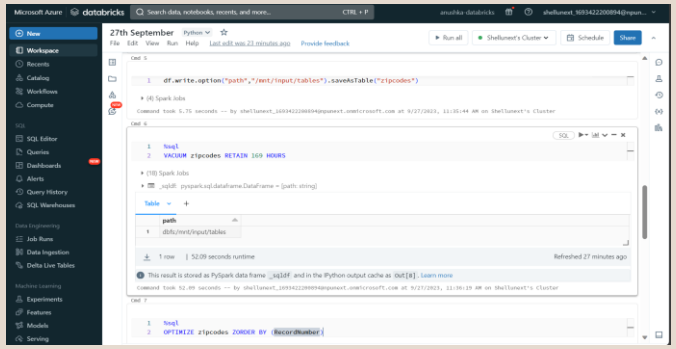
Azure Databricks – Day 2

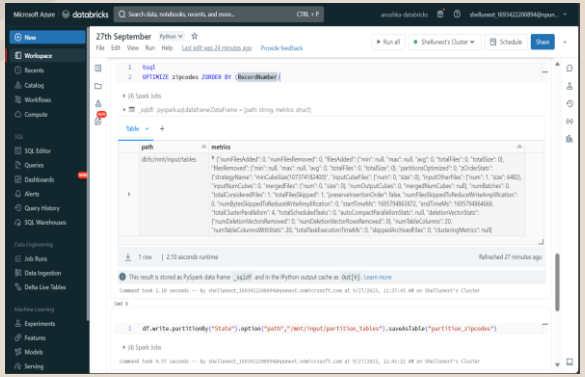
1. Structured streaming
2. DBFS from sample data
3. Delta table & Parquet table
4. Partition Tables
5. Medallion / Multi hop Architecture
6. Workflows → Jobs
7. Accessing data from Azure SQL database
8. Unity catalog in databricks
9. Metastore

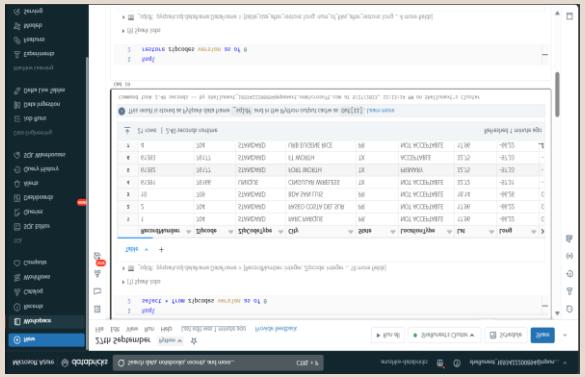

2023-09-27 - DBFS Example
Overview
This notebook will show you how to create and query a table or DataFrame that you uploaded to DBFS. DBFS is a Databricks File System that allows you to store data for querying inside of Databricks. This notebook assumes that you have a file already inside of DBFS that you would like to read from.
This notebook is written in Python so the default cell type is Python. However, you can use different languages by using the %LANGUAGE syntax. Python, Scala, SQL, and R are all supported.
# File location and type
file_location = "/FileStore/tables/zipcodes.csv"
file_type = "csv"
# CSV options
infer_schema = "false"
first_row_is_header = "false"
delimiter = ","
# The applied options are for CSV files. For other file types, these will be ignored.
df = spark.read.format(file_type) \
.option("inferSchema", infer_schema) \
.option("header", first_row_is_header) \
.option("sep", delimiter) \
.load(file_location)
display(df)

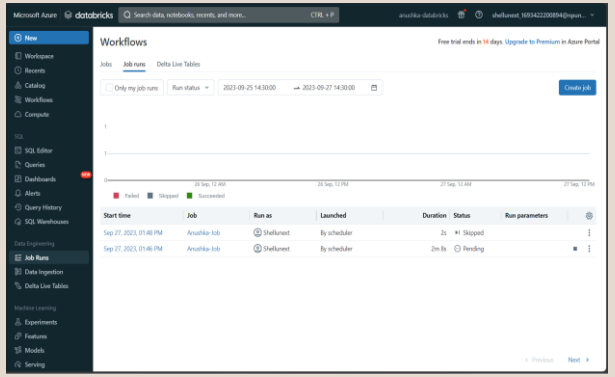

Catalog Explorer
default.zipcodes_1_csv
Column
Type
Comment
RecordNumber
Zipcode
ZipCodeType
City
State
LocationType
Lat
Long
Xaxis
Yaxis

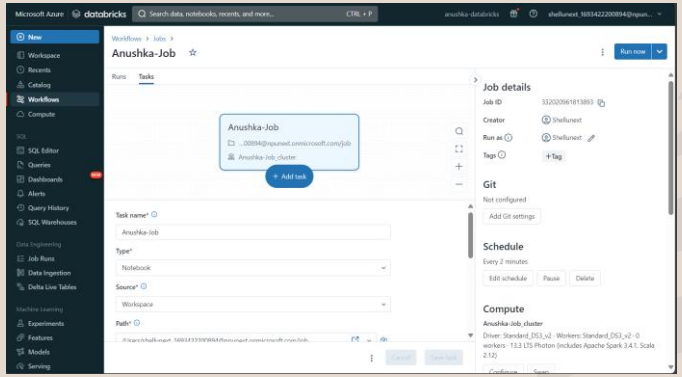

27th September
%sql
describe history zipcodes_1_csv
df=spark.read.option("inferSchema",True).option("header",True).csv("/mnt/input/zipcodes.csv")
df.display()


27th September
df.write.option("path","/mnt/input/tables").saveAsTable("zipcodes")
%sql
VACUUM zipcodes RETAIN 169 HOURS
%sql
OPTIMIZE zipcodes ZORDER BY (RecordNumber)


27th September
%sql
OPTIMIZE zipcodes ZORDER BY (RecordNumber)
df.write.partitionBy("State").option("path","/mnt/input/partition_tables").saveAsTable("partition_zipcodes")



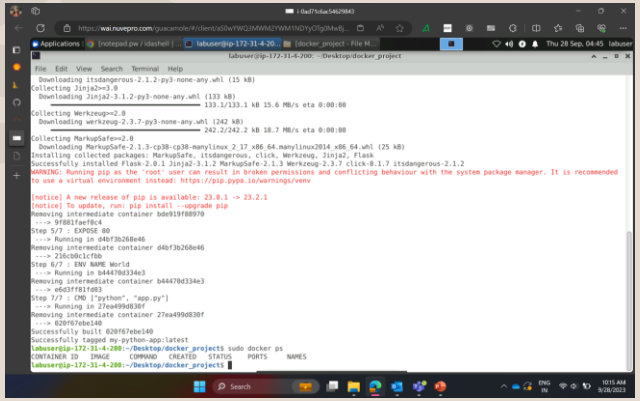

Workflows
Job runs
Delta Live Tables
Create job
Start time
Job
Run as
Launched
Duration
Status
Run parameters

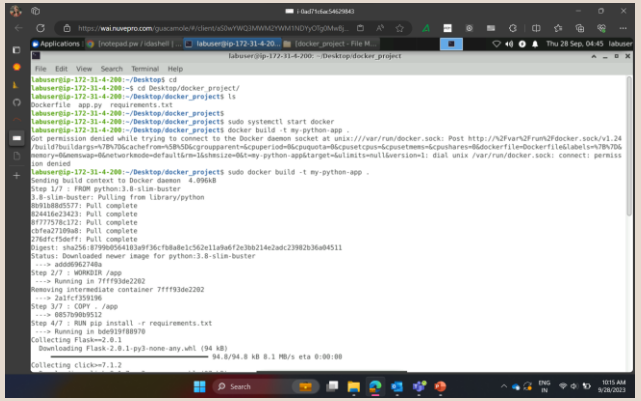

Anushka-Job
Runs
Tasks
Job details
Job ID
Creator
Run as
Tags
Git
Not configured
Schedule
Every 2 minutes
Compute

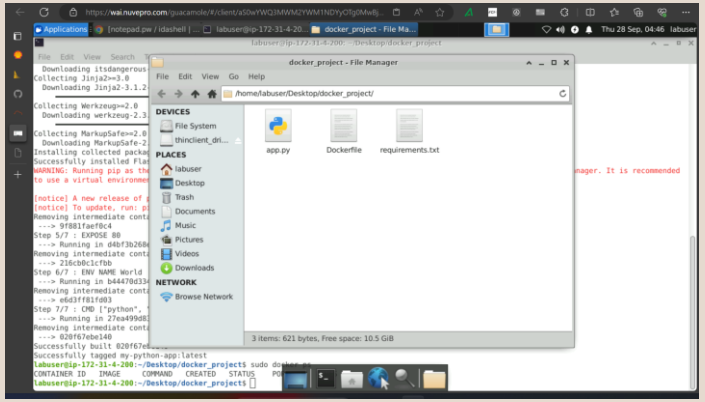
DAY-4

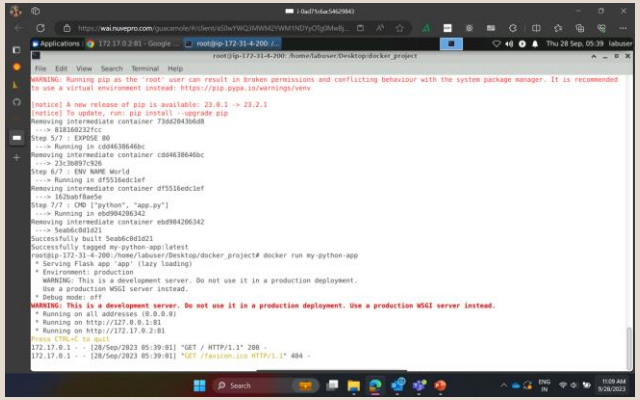
Docker Kubernetes

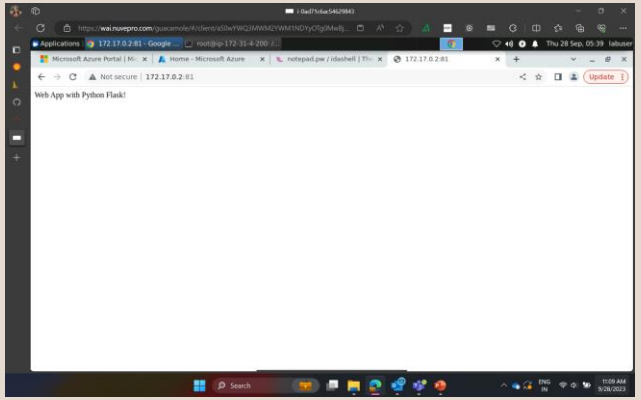
1. What is Docker ?
2. Docker initialization in VM
3. Build Docker image
   - Application
   - Requirement.txt
   - Dockerfile
4. Image created and Docker push
5. Azure container registry (ACR)
6. Kubernetes
7. AKS
8. Deploy a single-image application using code and UI

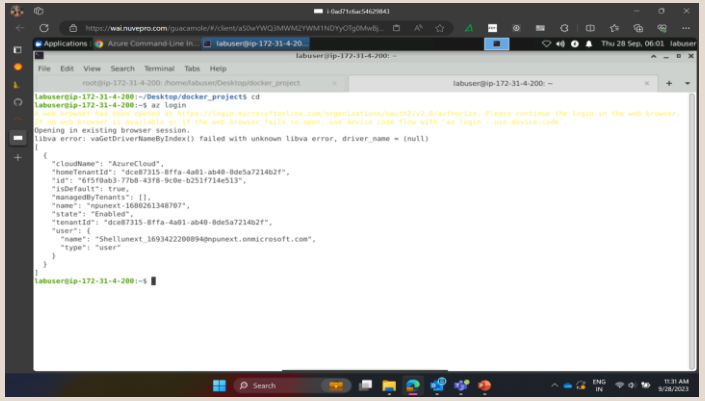


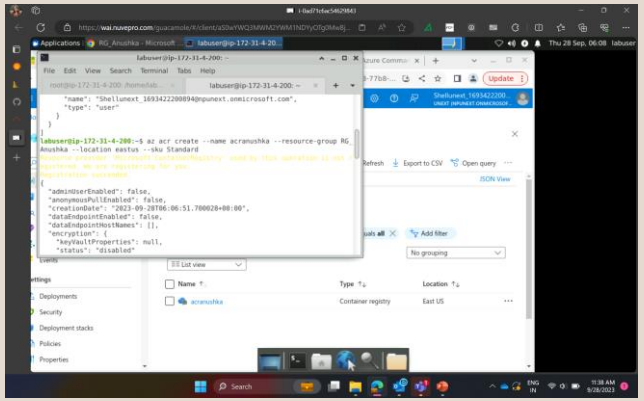


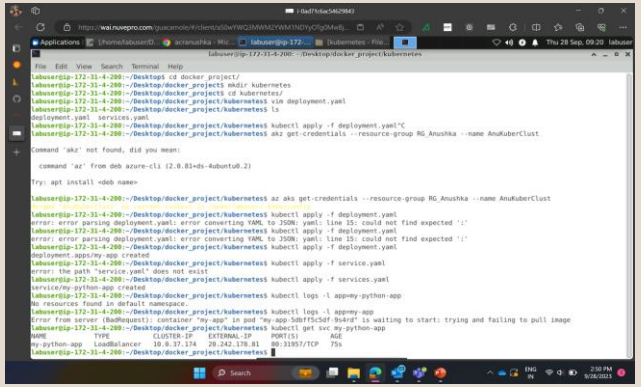


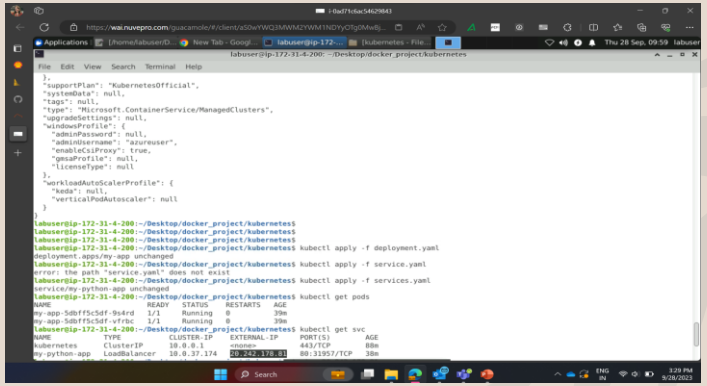


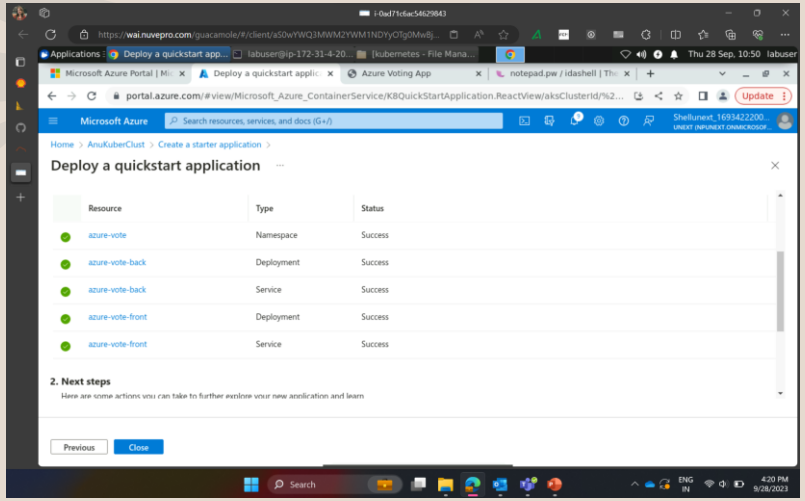


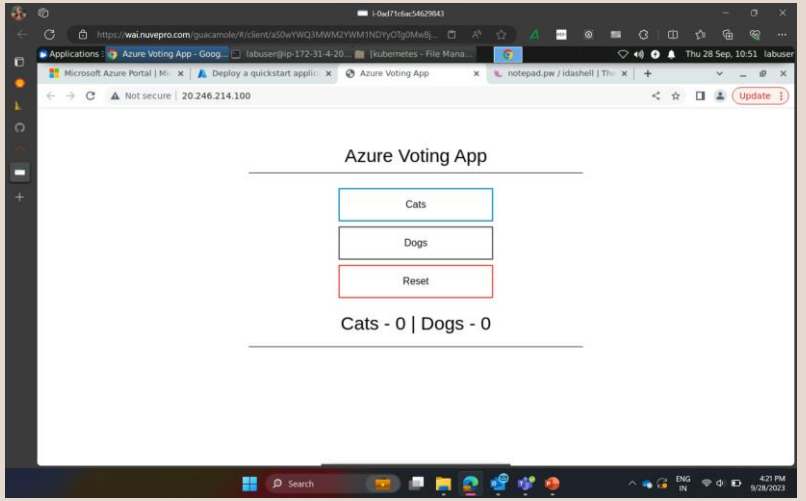








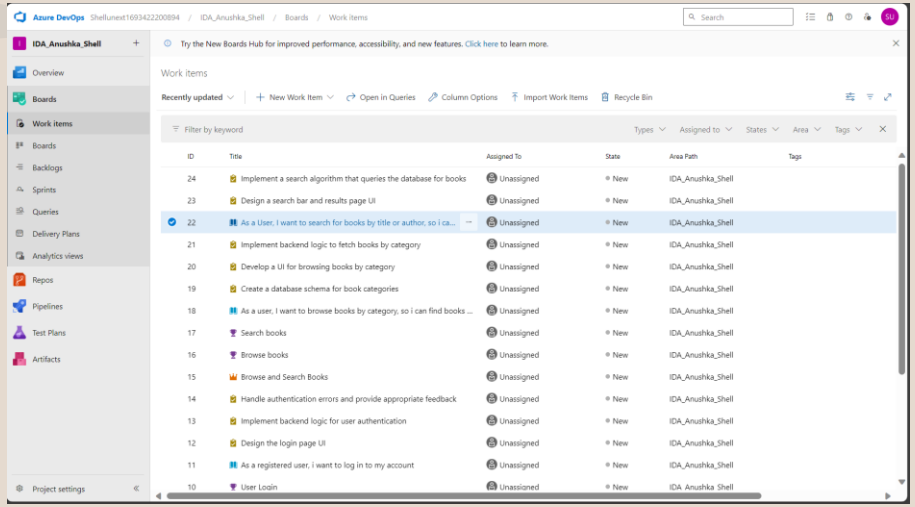

Deploy a quickstart application
Resource
Type
Status
azure-vote
Namespace
Success
azure-vote-back
Deployment
Success
azure-vote-back
Service
Success
azure-vote-front
Deployment
Success
azure-vote-front
Service
Success
2. Next steps
Previous
Close

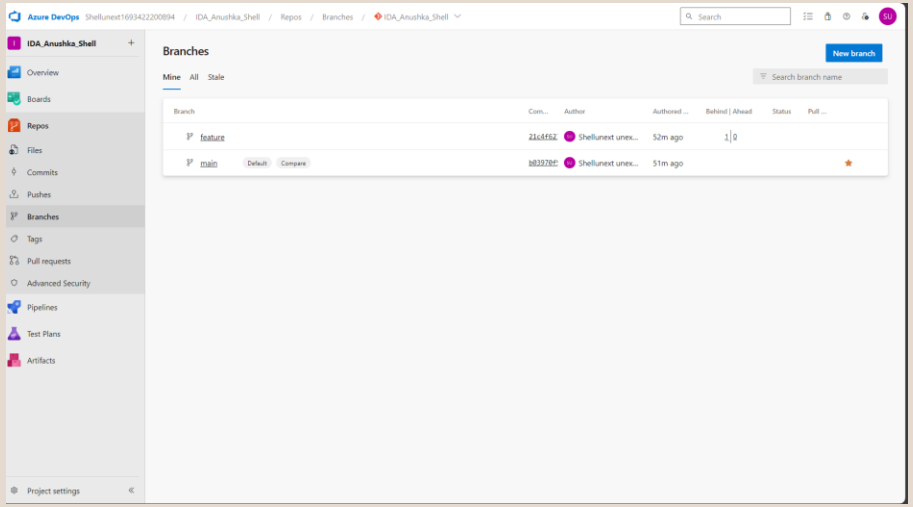

Azure Voting App
Cats
Dogs
Reset
Cats - 0 | Dogs - 0

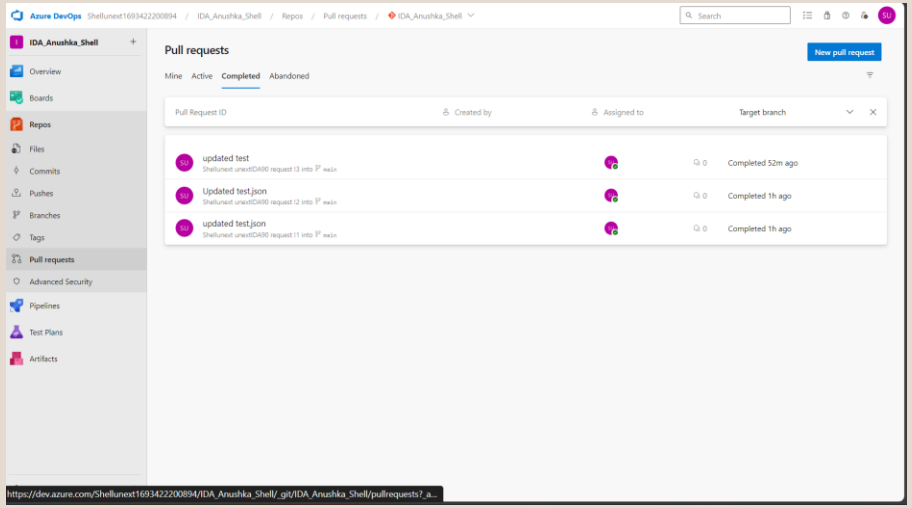
DAY-5

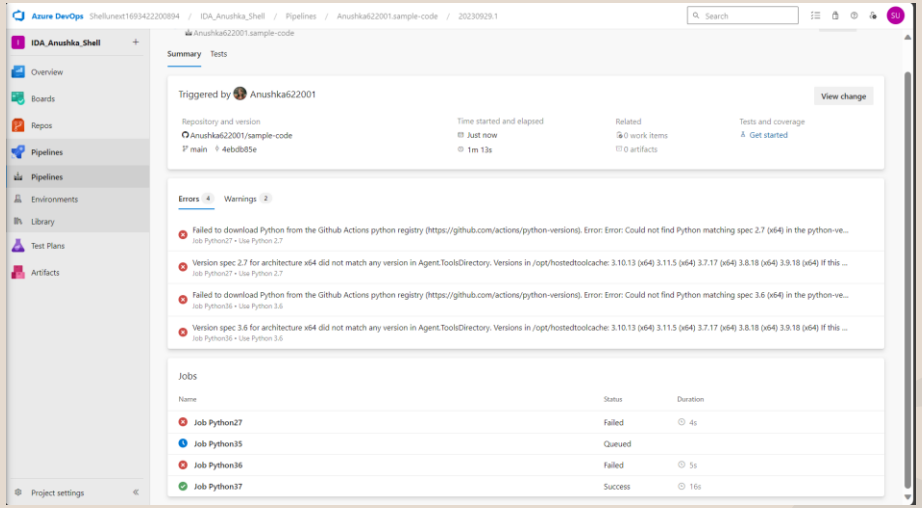
Azure Deployment / DevOps

1. What is DevOps ?
    1. Collaborative Branch (Main branch)
    2. Feature branch
2. Azure DevOps
    1. Boards
    2. Repos
    3. Pipelines
    4. Test plans
3. Creating a project Board in Azure DevOps
    - Work items
        - Epic
        - Feature
        - User story
        - Tasks
4. Azure Repos
5. Azure Pipelines


Azure DevOps
IDA_Anushka_Shell
Boards
Work items
Try the New Boards Hub for improved performance, accessibility, and new features. Click here to learn more.
Work items
New Work Item
Open in Queries
Column Options
Import Work Items
Recycle Bin
Implement a search algorithm that queries the database for books
Design a search bar and results page UI
As a User, I want to search for books by title or author, so i ca...
Implement backend logic to fetch books by category
Develop a UI for browsing books by category
Create a database schema for book categories
As a user, I want to browse books by category, so i can find books ...
Search books
Browse books
Browse and Search Books
Handle authentication errors and provide appropriate feedback
Implement backend logic for user authentication
Design the login page UI
As a registered user, I want to log in to my account
User Login


Azure DevOps
IDA_Anushka_Shell
Branches
New branch
Mine
All
Stale
feature
main


Azure DevOps
IDA_Anushka_Shell
Pull requests
New pull request
Mine
Active
Completed
Abandoned
updated test
Updated test.json
updated test.json
Completed 52m ago
Completed 1h ago
Completed 1h ago


Azure DevOps
IDA_Anushka_Shell
Summary
Tests
Triggered by Anushka622001
View change
Errors
Warnings
Jobs
Job Python27
Job Python35
Job Python36
Job Python37
Failed
Queued
Failed
Success

JOURNEY SCRAPBOOK

Custom Bootcamp (29th August – 6th October)

Week-6

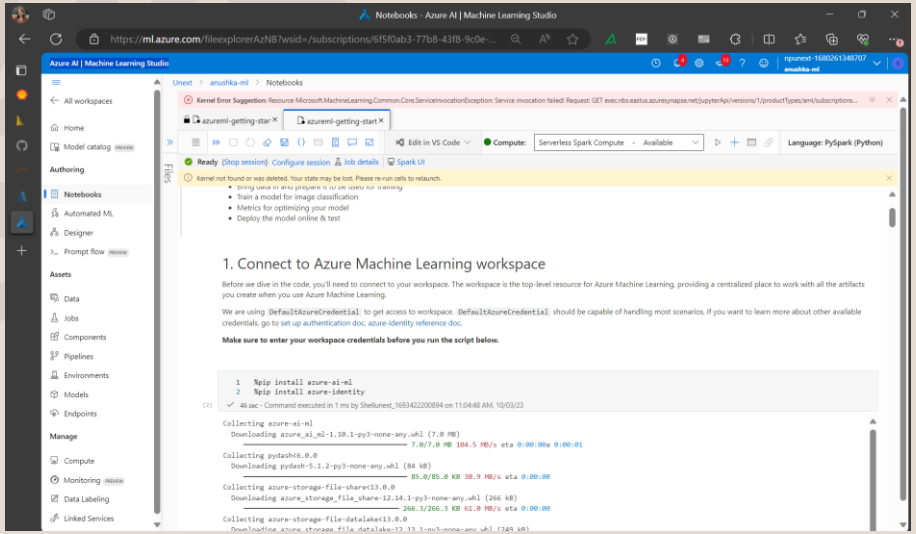
Anushka Dhir

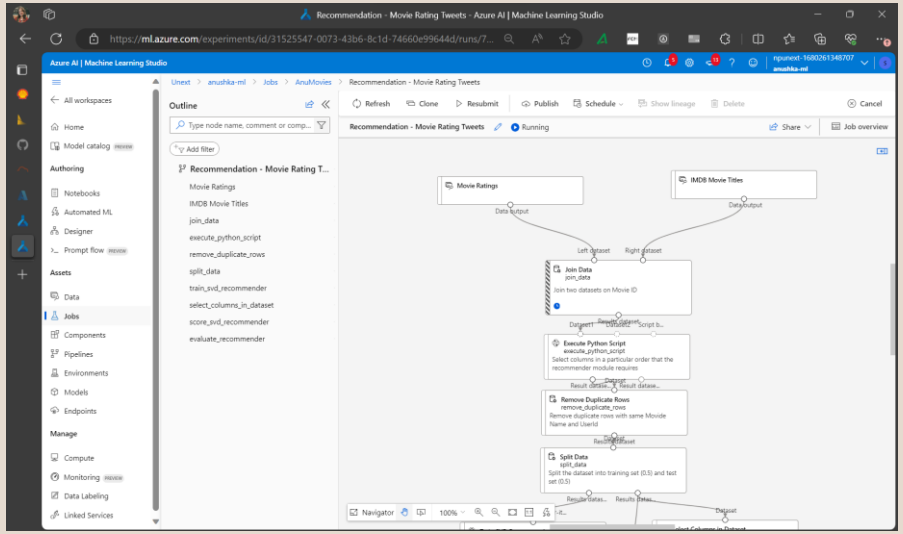
Batch-6

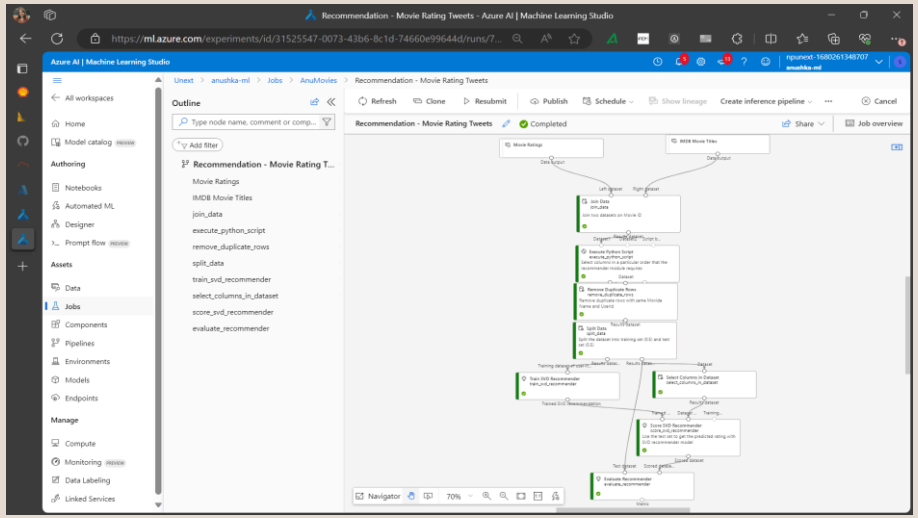
DAY-1

Machine Learning – Day 1

1. What is Machine learning and its uses in daily life ?
2. Types of machine learning algorithms :
   - Supervised
   - Unsupervised
   - Semi-supervised
   - Reinforcement
3. Overview of Azure ML Studio
4. Notebooks and Pipelines
5. Azure ML Designer


Notebooks - Azure AI | Machine Learning Studio
1. Connect to Azure Machine Learning workspace
%pip install azure-ai-ml
%pip install azure-identity

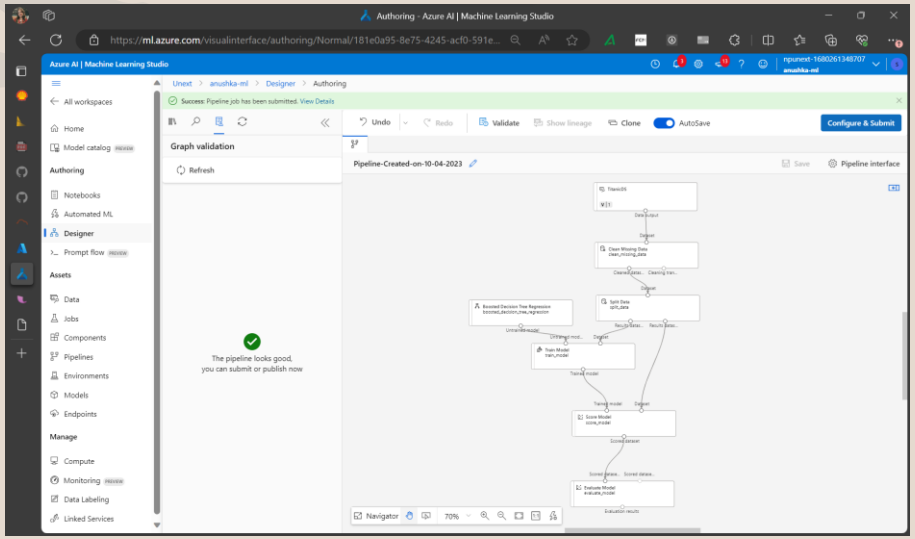

Recommendation - Movie Rating Tweets - Azure AI | Machine Learning Studio
Movie Ratings
IMDB Movie Titles
Join Data
Execute Python Script
Remove Duplicate Rows
Split Data

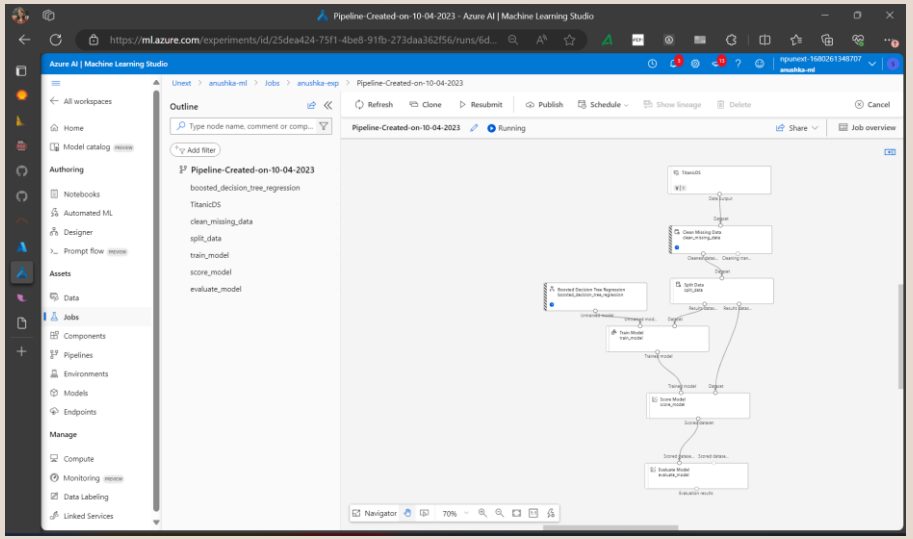

Recommendation - Movie Rating Tweets - Azure AI | Machine Learning Studio

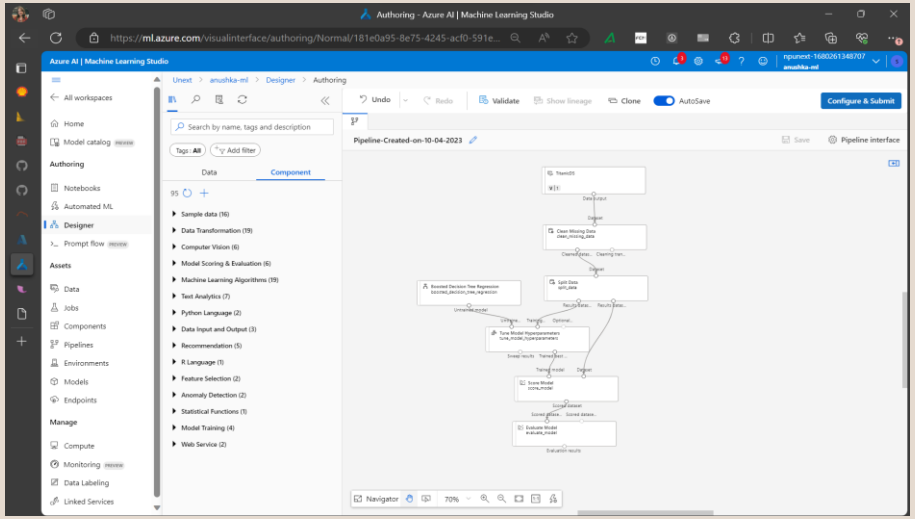
DAY-2

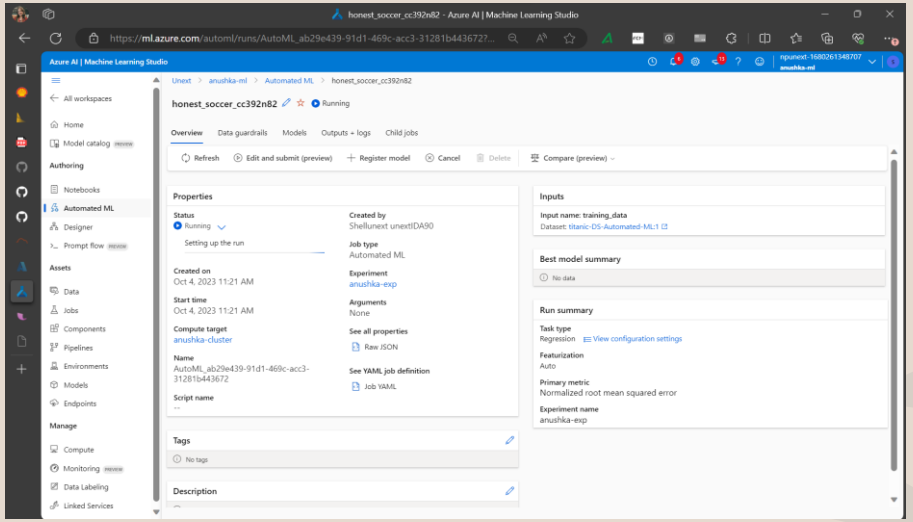
Machine Learning – Day 2

1. Azure ML Studio Pipelines
2. Tune model Hyperparameters
3. Automated ML


Authoring - Azure AI | Machine Learning Studio
Azure AI | Machine Learning Studio
Graph validation
Refresh
The pipeline looks good,
you can submit or publish now
Undo
Redo
Validate
Clone
AutoSave
Configure & Submit
Pipeline-Created-on-10-04-2023
Pipeline interface


Pipeline-Created-on-10-04-2023 - Azure AI | Machine Learning Studio
Azure AI | Machine Learning Studio
Outline
Pipeline-Created-on-10-04-2023
boosted_decision_tree_regression
TitanicDS
clean_missing_data
split_data
train_model
score_model
evaluate_model
Refresh
Clone
Resubmit
Publish
Schedule
Cancel
Running


Authoring - Azure AI | Machine Learning Studio
Azure AI | Machine Learning Studio
Data
Component
Undo
Redo
Validate
Clone
AutoSave
Configure & Submit
Pipeline-Created-on-10-04-2023
Pipeline interface


honest_soccer_cc392n82 - Azure AI | Machine Learning Studio
Azure AI | Machine Learning Studio
honest_soccer_cc392n82
Running
Overview
Data guardrails
Models
Outputs + logs
Child jobs
Refresh
Edit and submit (preview)
Register model
Cancel
Delete
Compare (preview)
Properties
Inputs
Best model summary
Run summary
Tags
Description

Thank You