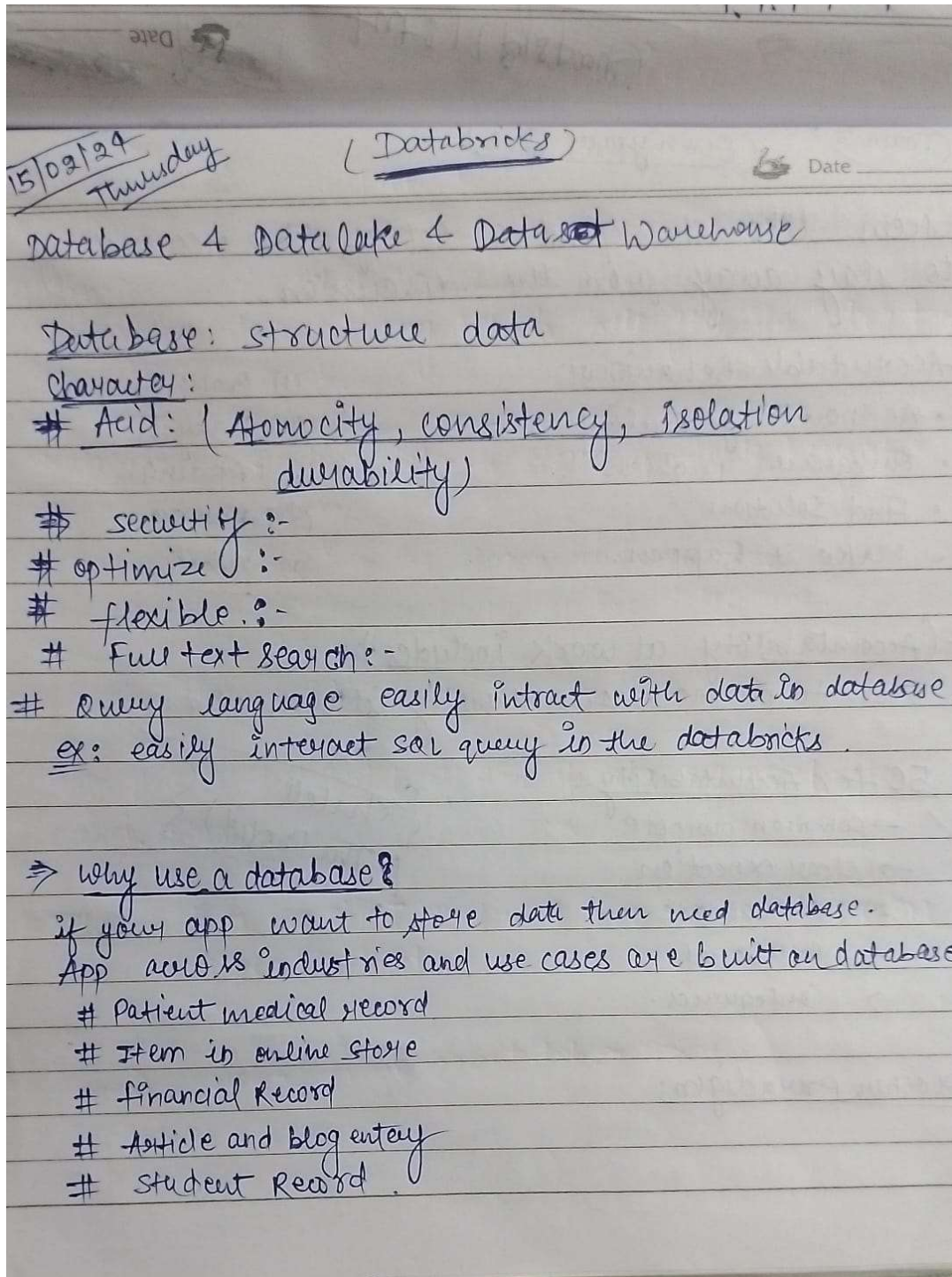


Name: Abhishek Kanoujia

DATA ENGINEERING BATCH 1

DAY 20 ASSIGNMENT

Class hand written notes:-



OLTP + data warehouse and datalake:

Both support OLTP. Its systems are typically used to collect data from variety of source. Its data is used to power a range of analytical use cases.

ex: Quarterly sales report. to forecasting (predicts smart sales according to historical trends)

ex: Relation: Oracle, MySQL, Microsoft SQL Server, PostgreSQL  
Doc: MongoDB, CouchDB, Key-value: Redis, DynamoDB

What is data warehouse?

Wide-column: Cassandra, HBase

Graph: Neo4j, Amazon Neptune

database  
examples

# datawarehouse:

It's a system that store structured information from various source. Data warehouse typically store current and historical data from one or more system (its giant database that is optimized for analytics)

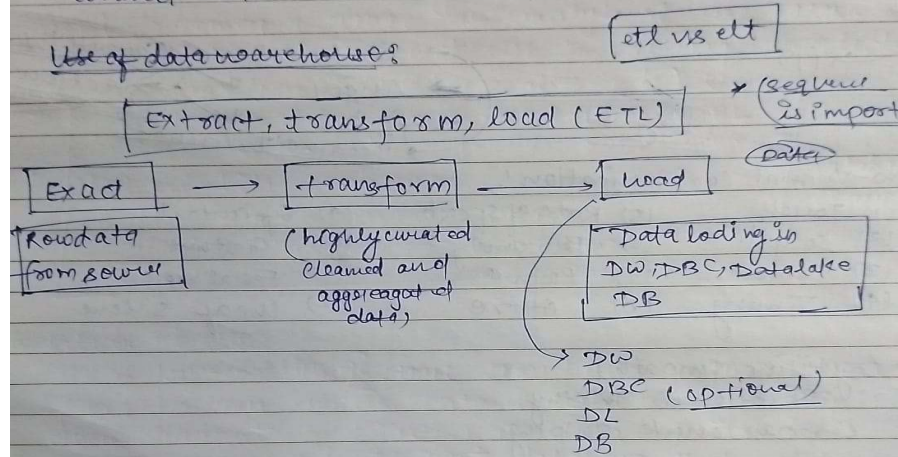
Characteristics:

- (i) store large amount of data
- (ii) ETL (Extract, transform, load)



- iii) it typically pre-define and fixed relational schema  
 iv) data in the warehouse, business analysts can connect data warehouse with BI.

Use of data warehouse:



What is data lake?

It is a repository of data from disparate sources that is stored in its original raw format.

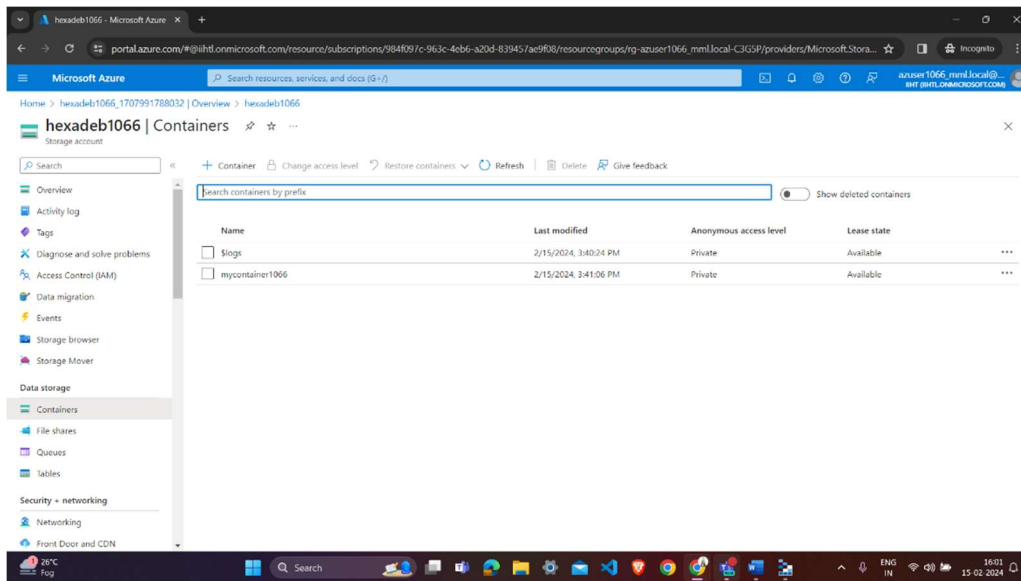
purpose of data lake is to analyze the data to gain insight.

gain knowledge for particular solution (by analyzing)

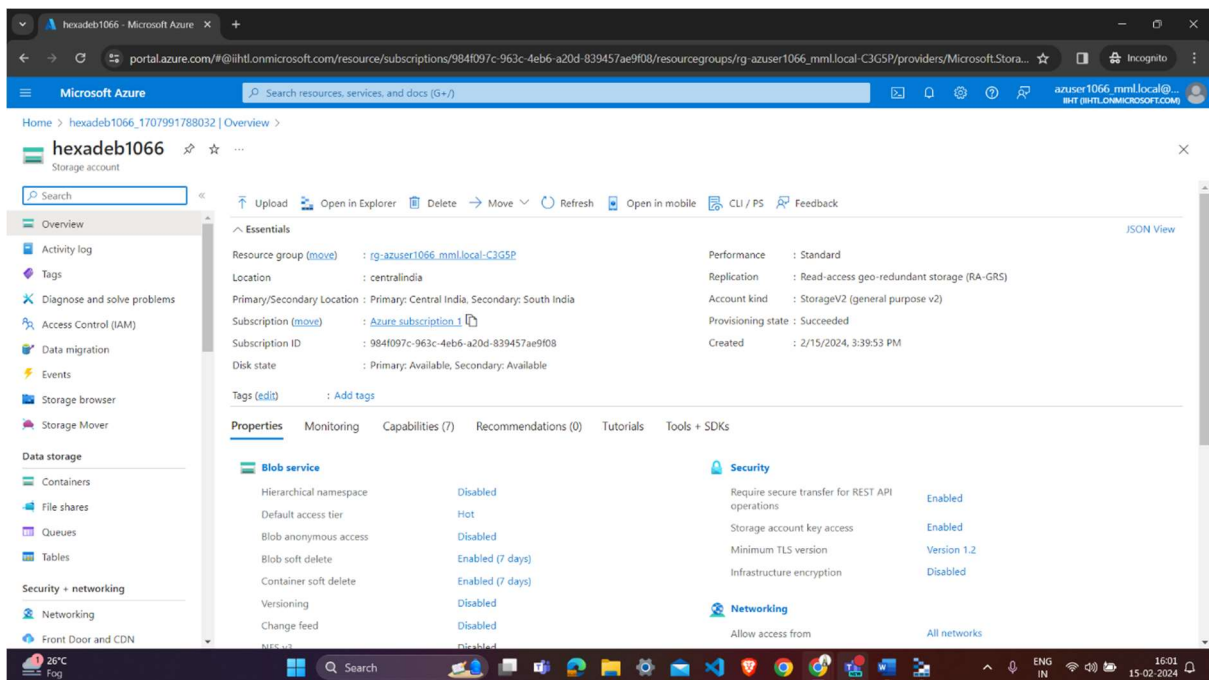
(Key difference btw. them)

	Database	Data Lake	Data Warehouse
Workload	Operational Transactional	Analytical	Analytical
Schema			
Pros			
Cons			
data type	structured or semi-structured	structured, semi-structured, unstructured ..	structured or semi-structured.

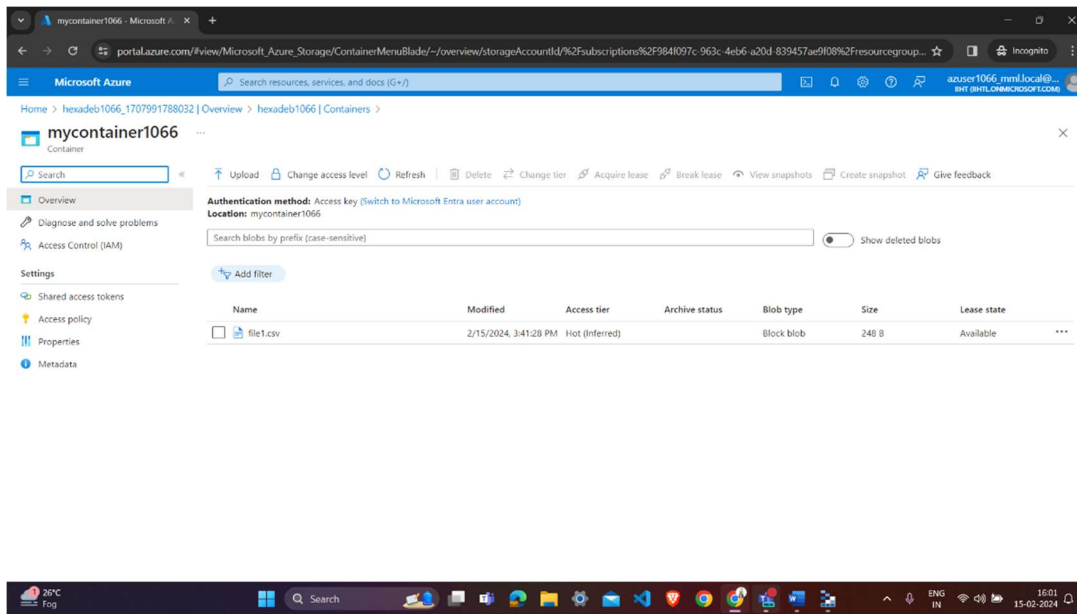
## Create data storage :- all the credential provided for creation



## Create container :-



## Upload file inside the container:-



mycontainer1066

Authentication method: Access key (Switch to Microsoft Entra user account)

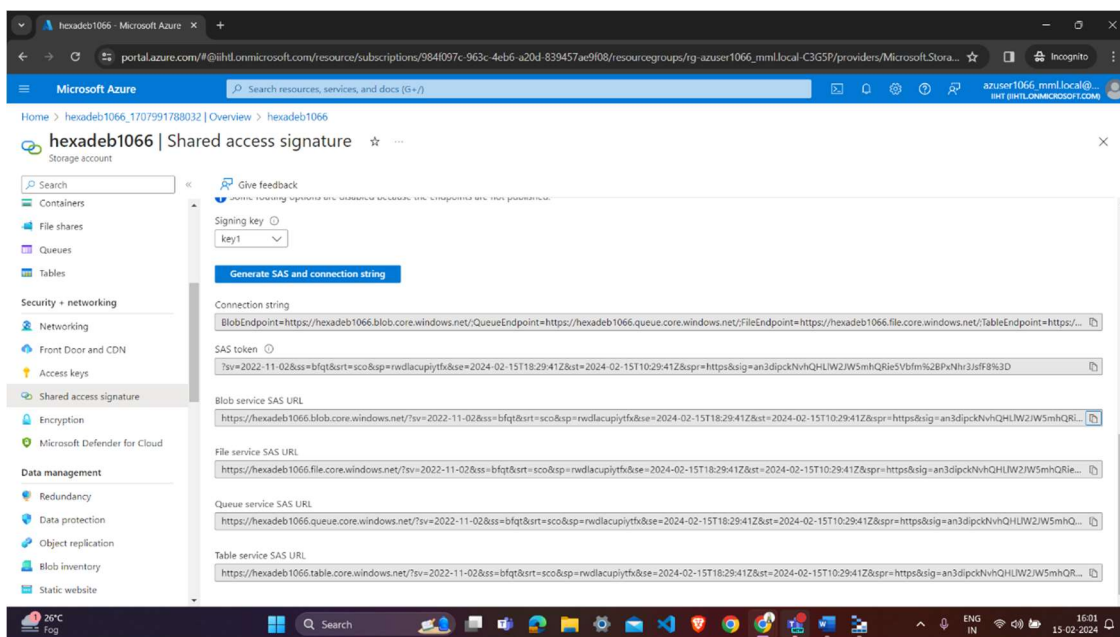
Location: mycontainer1066

Search blobs by prefix (case-sensitive)

Add filter

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
file1.csv	2/15/2024, 3:41:28 PM	Hot (Inferred)		Block blob	248 B	Available

## Copy path of blob service sas URL:-



hexadeb1066 | Shared access signature

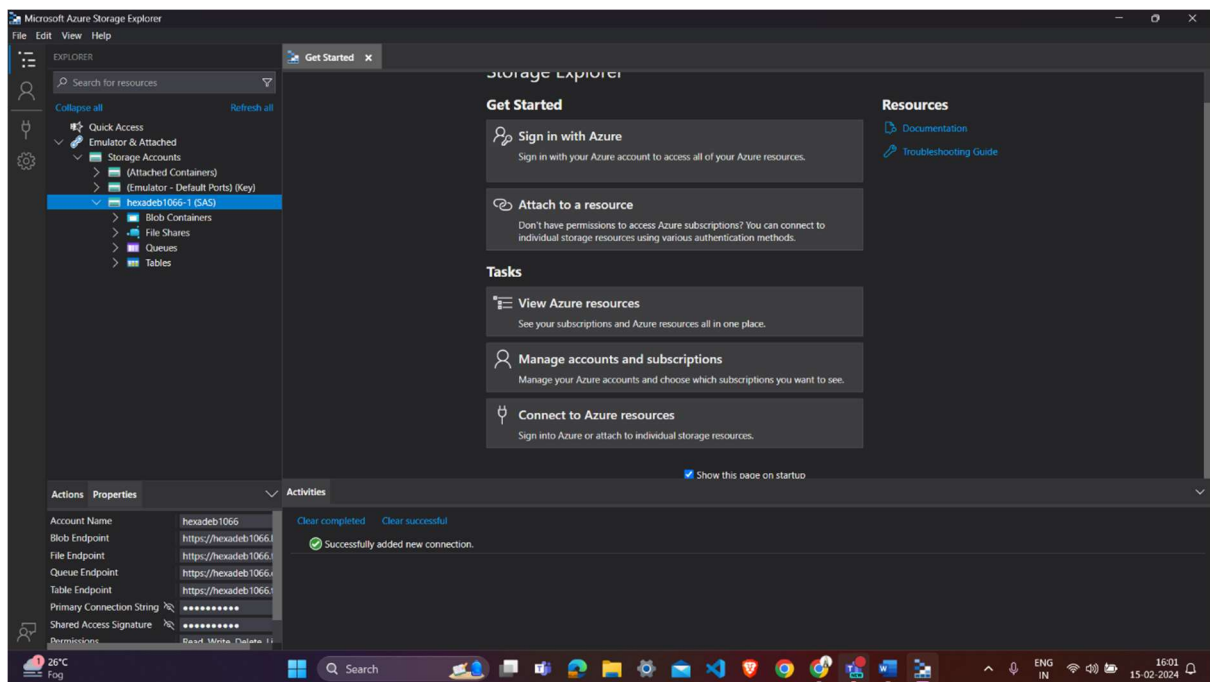
Generate SAS and connection string

Connection string

Blob service SAS URL

https://hexadeb1066.blob.core.windows.net/?sv=2022-11-02&ss=bfqt&st=sco&sp=rwdlacuplytf&se=2024-02-15T18:29:41Z&st=2024-02-15T10:29:41Z&spr=https&sig=an3dipckNvhQHJW2JW5mhQRieS5Vb/m%2BPxNhr3jsf8%3D

Connect to azure resources and paste the sas url in it:



Successfully added new connection uploaded file is shown here:-

