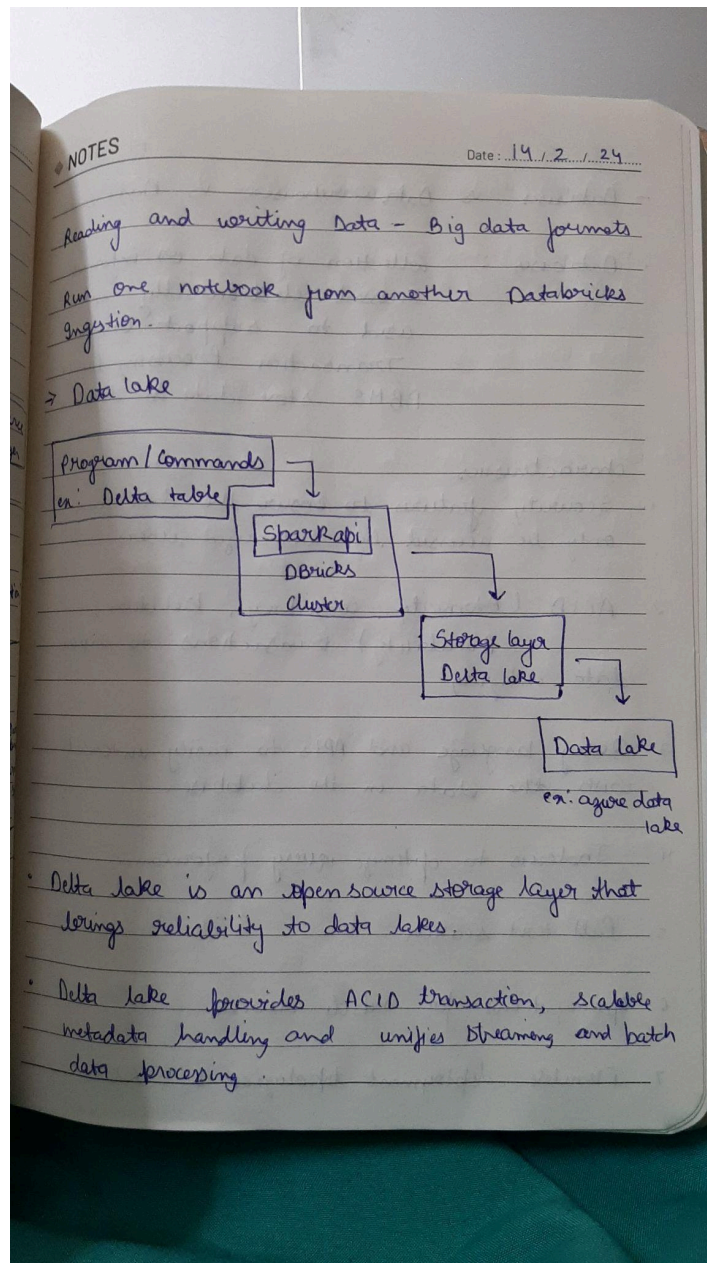


Asmita Porwal
Batch-1
Day-19
15/02/2024
Data engineering

Assignment-19

Hand written notes:



◆ NOTES

Date: 15 / 2 / 24

- Databases vs Data Warehouses Vs Data Lakes

- Databases : collection of data or information accessed electronically and used to support online Transaction Processing (OLTP). DBMS store data in database.

characteristics

1. Security features to ensure the data can only be accessed by authorized users.
2. ACID (Atomicity, Consistency, Isolation, Durability) transactions to ensure data integrity.
3. Query language and APIs to easily interact with the data in the database.
4. Indexes to optimize query performance.
5. Full text search.
6. Optimizations for mobile devices.
7. Flexible deployment topologies to isolate

NOTES

Date :/...../.....

workloads (eg: analytics workloads) to a specific set of resources.

8. on-premises, private cloud, public cloud, hybrid cloud, multicloud hosting option.

Uses of databases.

We can store data in databases like :-

1. Patient medical records
2. Items in an online store
3. Financial records
4. Articles and blog entries
5. Sports score and statistics.
6. Online gaming information.
7. Student grades and score.
8. IoT device readings
9. Mobile application information.

◆ NOTES

Date:/...../.....

- OLAP + data warehouse and data lakes,

Both data warehouse and data lakes support OLAP (online analytical processing)

data warehouse : It store highly structured information from various sources.

- It stores current and historical data from one or more system.
- It is used to combine disparate data sources in order to analyze the data, look for insights and create business intelligence (BI) in the form of reports and dashboards.

It is a giant database that is optimized for analytics.

→ ETL

Extract transform load. - Data warehouse

ELT - Data lake

Microsoft azure storage:

Home >

storage1060_1707997513962 | Overview

Deployment

Search

DeleteCancelRedeployDownloadRefresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: storage1060_1707997513962

Subscription: Azure subscription 1

Resource group: Workspace1060

Start time: 15/02/2024, 17:12:09

Correlation ID: 6f6e08a0-5d06-424c-9eaf-6e1085f706e1

Deployment details

Resource	Type	Status	Operation details
No results.			

Give feedback

Tell us about your experience with deployment

Deployment in progress...

Deployment to resource group 'Workspace1060' is in progress.

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Deployment

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DeleteCancelRedeployDownloadRefresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: storage1060_1707997513962

Subscription: Azure subscription 1

Resource group: Workspace1060

Start time: 15/02/2024, 17:12:09

Correlation ID: 6f6e08a0-5d06-424c-9eaf-6e1085f706e1

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Deployed

Deployment group 'Workspace1060' is in progress.

Go to resource

Cost Management

Get next steps

Set up

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azurecontainer

Container

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Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Upload

Change access level

Refresh

Delete

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

Location: azurecontainer

Search blobs by prefix (case-sensitive)

Add filter

No results

Upload blob

×

1 file(s) selected: Marks_data.csv

Drag and drop files here or [Browse for files](#)

Overwrite if files already exist

Advanced

Upload

Give feedback

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azurecontainer

Container

Search

«

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Upload

Change access level

Refresh

Delete

Change tier

Acquire lease

Break lease

View snapshots

...

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

Location: azurecontainer

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type	Size
<input type="checkbox"/> Marks_data.csv	15/02/2024, 17:17:16	Hot (Inferred)		Block blob	88 B

Successfully uploaded blob(s)

Successfully uploaded 1 blob(s).

×

ne > storage1060

storage1060 | Shared access signature

Storage account

Search Give feedback

Read/Write Filter

Start and expiry date/time

Start 02/15/2024 17:20:48

End 02/16/2024 01:20:48

(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Allowed IP addresses

49.43.241.91

Allowed protocols

HTTPS only HTTPS and HTTP

Preferred routing tier

Basic (default) Microsoft network routing Internet routing

Some routing options are disabled because the endpoints are not published.

Signing key

key1

Generate SAS and connection string

File Edit View Help

EXPLORER

Search for resources

Collapse all Refresh all

- (Emulator - Default Ports) (Key)
- myaccount1060 (SAS)
- storage (SAS)
 - Blob Containers
 - File Shares
 - Queues
 - Tables
- storage1060 (SAS)
 - Blob Containers
 - File Shares
 - Queues
 - Tables
- test (SAS)
 - Blob Containers
 - \$logs
 - azurecontainer
 - File Shares
 - Queues
 - Tables

Get Started x azurecontainer x

Upload Download Open Preview New Folder Select All Copy Paste Clone More

Active blobs (default) azurecontainer

Name	Access Tier	Access Tier Last Modified
Marks_data.csv	Hot (inferred)	

Showing 1 to 1 of 1 cached items

1 Load more

Actions Properties Activities