INDIVIDUAL PROJECT 2

NAME: Bhargavarama Vadlamudi

STUDENT ID: 700732782

Project Description: The project is associated with the usage of Azure services for storing the data. The services I have used are Azure SQL Database and Azure Data Lake. The tasks that were achieved as part of this IP2 include the creation of the Azure SQL server and the database and using the database to create objects. The second task is to create an Azure data lake which will be used as a staging layer or the landing zone for storing raw data from Source applications

TASK1: Azure SQL Database

Video Location:

https://drive.google.com/file/d/1iq5J2q6UDaa4oPaUus46TyVRN7D-qO4u/view?usp=sharing

File Name: Azure SQL Database.mp4

Azure SQL database is a storage service provided by Azure. This helps us to create relational or transactional database systems for an organization.

Step 1: Sign into the Azure portal and look for Azure SQL database (0-0:10)

Step 2: Go to Databases and select Azure SQL databases and click on Create SQL database (0:11-0:40)

Step3: On the next page, First create a SQL Server Instance and create an admin login and password for the SQL server. On the same page create the database name. (0:42-4:17)

Step 4: Click on Review + Create on the bottom of the page this will take you through the deployment process. The deployment window will show the progress of the steps of the creation of the SQL server and database. (4:20-6:40)

Step 5: Once the deployment is completed, click on Query editor on the left pane, it will allow connecting to the SQL server we have created in the previous step. For the first-time login, we must add the Ip address to the firewall, or else it will throw an error. (6:50-7:55)

Step 6: Once the database is opened, we can create and use the SQL objects from either the Azure portal or from SSMS offline. (7:55-8:20)

TASK2: Azure Data Lake Gen1 Creation:

Video Location:

https://drive.google.com/file/d/14VVWAd_1sWHWpvJu7q1yJAzVra1timaV/view?usp=sharing

File Name: Azure Datalake.mp4

Step 1: Sign in to the Azure portal and look for Azure SQL database (0-0:10)

Step 2: Go to search and select Azure Data Lake and click on Create and create an Instance for Azure Data Lake.(0:10-3:04)

Step 3: Click on Next and Select Pricing, Azure offers 2 types of pricing for Azure data lake gen1(Pay as you go and Monthly Commitment). In the demo video, I have used Pay as you go as the pricing method.(3:20-3:35)

Step 4: Select the Encryption method in the next step. I have selected the Access key provided by the Azure option. then click on Review & Create(3:35-4:20)

Step 6: After deployment is completed, I have uploaded a few files from my local system to the Azure data lake that was created in the previous steps.(4:20-7:30)