

Datawarehousing With IBM Cloud DB2

Warehouses

Project Title: DataWarehousing With IBM DB2

A data warehousing is an enterprise system used for the analysis and reporting of structured and semi-structured data form multiple sources.

Joins:

right join or right outer join – right table data + common items between 2 tables.

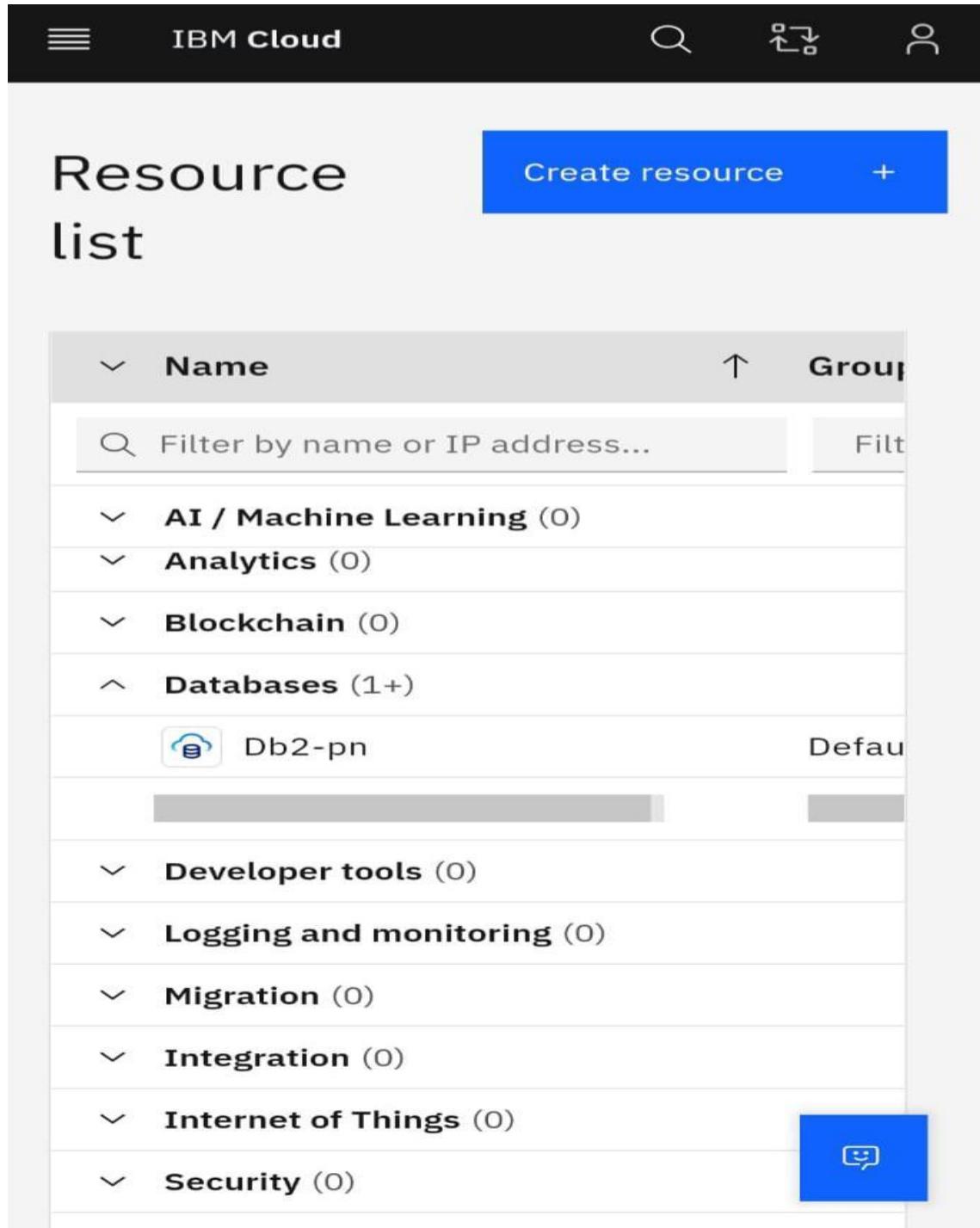
left join or left outer join – Left table data + common items between 2 tables.

Inner join – Common itmes between 2 tables





Self join – Join with the same table.

Full outer join – Everything from both the tablesinclusive of duplicates.

Step 1 : Create IBM cloud account and go to the Resource list.






Step 2 : After complete the step 1 and Click the Database (1+).

 IBM Cloud   

Resource list

Create resource +

▼ Name	↑	Group
<div><div> Filter by name or IP address...</div><div>Filter</div></div>		
▼ Compute (0)		
▼ Containers (0)		
▼ Networking (0)		
^ Storage (1)		
 Cloud Object Storage-2g		Default
▼ Converged infrastructure (0)		
▼ Enterprise applications (0)		
▼ AI / Machine Learning (0)		
▼ Analytics (0)		
▼ Blockchain (0)		
^ Databases (1)		



 	Key name	Date created
 	Service credentials-1	2023-10-04 10:41 AM
	<pre>{ "connection": { "cli": { "arguments": [{ "-u", "bjj79264", "-p", "sdN6b78vM7HtWwYw", "--ssl", "--sslCAFile", "1dd14d0c-1b52-4f63-a606-53ecba28771d", "--authenticationDatabase", "admin", "--host", "824dfd4d-99de-440d-9991-629c01b3832d.bs2io90108kqb1od81cg.databases.appdomain.cloud:30119" }], "bin": "db2", } } }</pre>	

Step 3 : Click Go to UI.



[Resource list](#) /

Db2-pn



✓ Active

Getting started

Where can I find my credentials?

Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials".

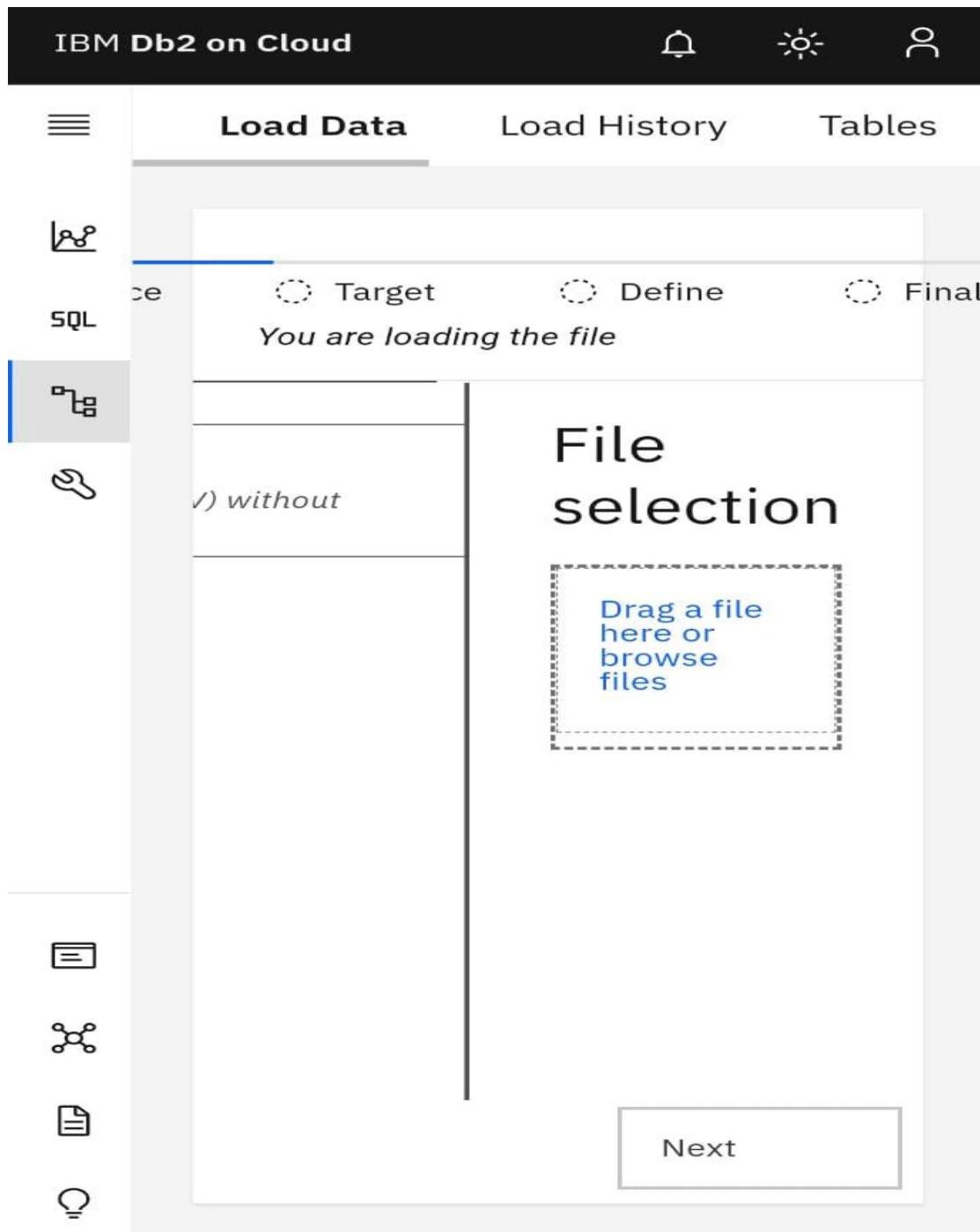
Don't see this menu on the left? Click on "Manage in IBM Cloud" to open the IBM Cloud dashboard.

Go to UI



[Getting started docs](#)

Step 4 : Click drag a file here after choose file and upload the dataset. File extension must CSV files or text files only.



Before dataset

Idex	User Id	First Name	Last Name
Sex	Email Id		Phone No
Date Of Birth	Job Title		
1	d3b4hs7ffj	Abinaya	M
Female		Abi@gmail.com	
9874568795	13.10.2003	Web Developer	
2	s7fm9js4f8	Abirami	S
Female			
Ammu@gmail.com			7640684360
12.11.2004	3D designer		
3	bhf90hd6f5	Sarguru	M
Male			
Sarguru@gmail.com			7538800392
20.12.1998	EEE engineer		
4	ahn784jd5f	Yazhan	B
Male			
Yazhan@gmail.com			9246587098
18.08.2002	Programmer		
5	bf7hj8bd4g	Suryapriya	C
Female			
priya@gmail.com			9755673849
1.12.2003	2D Designer		
6	hj7g8kjsd6	Maiyuri	G
Female			
Maiyu@gmail.com			7778654648
09.02.1996	Software Developer		
7	d5h7gb8d4t	Mohan	S
Male			
Mohu@gmail.com			
9876543210	18.09.2000	Information Security Analyst	
8	cg9nj5dg65	Yamini	V
Female			
Kutty@gmail.com			
6768945238	04.05.2003	Game Developer	
9	gh43ds893d	Aswin	H
Male			
Ashu@gmail.com			7894526455
30.11.1991	Editor		

10	9jkh43risd	Midhuna	J
	Female	Midhu@gmail.com	
	9806754356	13.05.2001	Software Developer
11	rjldkh30k7	yashika	T
	Female	Yashi@gmail.com	8765432190
	05.06.2000	Game Developer	
12	abj9kcd74w	Rajesh	V
	Male	Raj@gmail.com	7654321098
	19.04.1997	Software Developer	
13	cvgh45azm2	Ananya	K
	Female	Ananya@gmail.com	
	6789012345	20.01.2003	Application Developer
14	qwpo09nmzx	Kavin	G
	Male	Kavin@gmail.com	
	8901234567	01.01.2001	Game Designer
15	xzh45qwe80	Vijay	C
	Male	Vijay@gmail.com	6786543210
	10.12.2002	System Architecture	
16	jk86mz34gf	pradeep	S
	Male	Pradeep@gmail.com	
	6754839201	02.03.1996	Data Scientist
17	qw649bx93r	Dhanush	O
	Male	Kavin@gmail.com	
	8899765876	21.07.1999	Ux Designer
18	bvg13sk25o	Kamal	A
	Male	Kamal@gmail.com	
	9889787657	15.04.2001	Mobile App Developer
19	zm87vxeew5	Snega	W
	Female	Snega@gmail.com	
	9788934936	18.09.2002	IT Project Manager

After CSV file data set

		B	C	D	E
1		User Id	First Name	Last	Sex
2	1	d3b4hs7ffj	Abinaya	M	Female
3	2	s7fm9js4f8	Abirami	S	Female
4	3	bhf90hd6f5	Sarguru	M	Male
5	4	ahn784jd5f	Yazhan	B	Male
6	5	bf7hj8bd4g	Suryapriya	C	Female
7	6	hj7g8kjsd6	Maiyuri	G	Female
8	7	d5h7gb8d4t	Mohan	S	Male
9	8	cg9nj5dg65	Yamini	V	Female
10	9	gh43ds893d	Aswin	H	Male
11	10	9jkh43risd	Midhuna	J	Female
12	11	rjidkh30k7	yashika	T	Female
13	12	abj9kcd74w	Rajesh	V	Male
14	13	cvgh45azm2	Ananya	K	Female
15	14	qwpo09nmzx	Kavin	G	Male
16	15	xzh45qwe80	Vijay	C	Male
17	16	jk86mz34gf	pradeep	S	Male
18	17	qw649bx93r	Dhanush	O	Male
19	18	bvg13sk25o	Kamal	A	Male
20	19	zm87xeew5	Snega	W	Female
21	20	wedgnx87ty	Anushka	H	Female
22					
23					
24					

	F	G	H	I
1	Email Id	Phone No	Date Of Birth	Job Title
2	Abi@gmail.com	9874568795	13.10.2003	Web Developer
3	Ammu@gmail.com	7640684360	12.11.2004	3D designer
4	Sarguru@gmail.com	7538800392	20.12.1998	EEE engineer
5	Yazhan@gmail.com	9246587098	18.08.2002	Programmer
6	priya@gmail.com	9755673849	1.12.2003	2D Designer
7	Maiyu@gmail.com	7778654648	09.02.1996	Software Developer
8	Mohu@gmail.com	9876543210	18.09.2000	Information Security Analyst
9	Kutty@gmail.com	6768945238	04.05.2003	Game Developer
10	Ashu@gmail.com	7894526455	30.11.1991	Editor
11	Midhu@gmail.com	9806754356	13.05.2001	Software Developer
12	Yashi@gmail.com	8765432190	05.06.2000	Game Developer
13	Raj@gmail.com	7654321098	19.04.1997	Software Developer
14	Ananya@gmail.com	6789012345	20.01.2003	Application Developer
15	Kavin@gmail.com	8901234567	01.01.2001	Game Designer
16	Vijay@gmail.com	6786543210	10.12.2002	System Architecture
17	Pradeep@gmail.com	6754839201	02.03.1996	Data Scientist
18	Kavin@gmail.com	8899765876	21.07.1999	Ux Designer
19	Kamal@gmail.com	9889787657	15.04.2001	Mobile App Developer
20	Snega@gmail.com	9788934936	18.09.2002	IT Project Manager
21	Anushka@gmail.com	9688556473	29.02.2004	AI Engineer
22				
23				
24				
25				
26				



Data objects

Saved objects



SQL



QQV27866



Tables



PEOPLE 20

Views

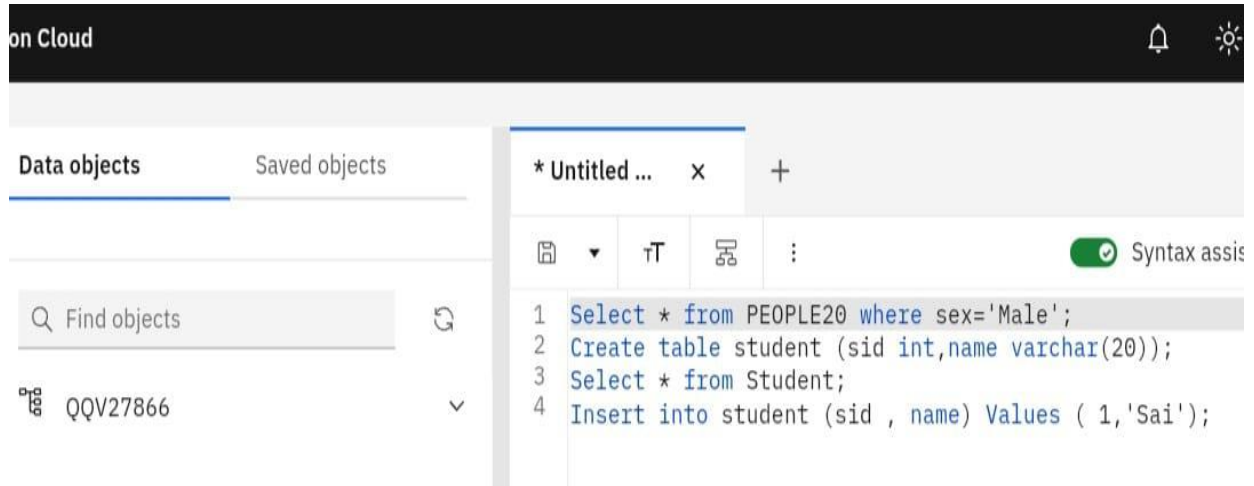
MQTs

Aliases

Nicknames



After run the SQL




Output

History				
Find by statement or status				
Script	Date	Status	Runtime	
^ Untitled - 1	Oct 29, 2023 12:30:56 PM	✓ 1 ✗ 3	0.051 s	:
Select * from PEOPLE20 where sex='Male'		✗	0.018 s	:
Create table student (index int,name varchar(20))		✗	0.016 s	:
Select * from Student		✓	0.004 s	:
Insert into student (index ,name) Values (1,'Sai')		✗	0.013 s	:
^ Untitled - 1	Oct 29, 2023 12:29:38 PM	✓ 2 ✗ 2	0.037 s	:
Select * from PEOPLE20 where sex='Male'		✗	0.015 s	:
Create table student (sid int,name varchar(20))		✗	0.014 s	:
Select * from Student		✓	0.004 s	:
Insert into student (sid , name) Values (1,'Sai')		✓	0.004 s	:

After complete all process and go to storage (1)
and Click the Cloud Object Storage-2g

The screenshot displays the IBM Cloud console's 'Resource list' page. The top navigation bar includes the IBM Cloud logo, a search icon, a resource group icon, and a user profile icon. The main heading 'Resource list' is on the left, and a blue 'Create resource +' button is on the right. Below the heading is a table with columns for 'Name' and 'Group'. A search bar is positioned above the table rows. The 'Storage' category is expanded, showing a list of resources. One resource, 'Cloud Object Storage-2g', is highlighted with a blue icon and is associated with the 'Default' group. Other categories like 'Compute', 'Containers', 'Networking', 'Converged infrastructure', 'Enterprise applications', 'AI / Machine Learning', 'Analytics', 'Blockchain', and 'Databases' are also listed with their respective counts in parentheses. A blue chat bubble icon is located in the bottom right corner of the interface.

▼ Name	↑ Group
Filter by name or IP address...	
▼ Compute (0)	
▼ Containers (0)	
▼ Networking (0)	
^ Storage (1)	
 Cloud Object Storage-2g	Default
▼ Converged infrastructure (0)	
▼ Enterprise applications (0)	
▼ AI / Machine Learning (0)	
▼ Analytics (0)	
▼ Blockchain (0)	
^ Databases (1)	

Create unique bucket name . Our Bucket name is bucketdb2. And upload the file .

The screenshot shows the IBM Cloud console interface for a Cloud Object Storage instance. The left sidebar contains navigation links: Cloud Object Storage, Instances, Integrations, Endpoints, Documentation, and Billing. The main content area is titled 'Cloud Object Storage-2g' and includes tabs for Buckets, Service credentials, Instance Usage, and Plan. The 'Buckets' tab is selected, showing a table with one bucket named 'bucketdb2'. The table columns are Name, Public access, Location, Storage class, and Created. A 'Create bucket' button is visible in the top right of the bucket list.

Name	Public access ⓘ	Location ⓘ	Storage class	Created
bucketdb2	No	United States - Dallas (us-south)	Smart Tier	2023-10-29 11:56 AM