

Azure-data-engineering-incremental-load-pipeline

Key Vault-

Do this so that adf can access key vault

The screenshot shows the 'Create an access policy' wizard in the Microsoft Azure portal. The current step is 'Permissions'. The 'Key permissions' section is selected and contains several checkboxes for various operations like Get, List, Update, Create, Import, Delete, Recover, Backup, and Restore. The 'Secret permissions' and 'Certificate permissions' sections also have similar sets of checkboxes. At the bottom, there are 'Previous' and 'Next' buttons.

The screenshot shows the 'Create an access policy' wizard in the Microsoft Azure portal. The current step is 'Principal'. It displays a search bar and a list of Azure AD users and groups. One item, 'adf-incremental-load24 f1487cb7-1599-4ece-9d99-e29b5fabcf71', is selected and highlighted. At the bottom, there are 'Previous' and 'Next' buttons.

Microsoft Azure | Data Factory > adf-incremental-load24

Search

Azure Data Factory allows you to configure a Git repository with either Azure DevOps or GitHub. Git is a version control system that allows for

[Set up code repository](#)

Data factory
adf-incremental-load24

New ▾

Ingest Copy data at scale once or on a schedule.

Orchestrate Code-free data pipelines.

Transform Transform data.

Recent resources

No items to show

Configure a repository

kady05naike

Specify the settings that you want to use when connecting to your repository.

Select repository Use repository link

Repository name *

Collaboration branch *

Publish branch *

Root folder *

Custom comment Use custom comment

Import existing resources Import existing resources to repository

Import resource into this branch

Apply Back Cancel

Microsoft Azure | Data Factory > adf-incremental-load24

Search

/ dev-kad branch Validate all Save all Publish

ds_json_min_date ds_AzureSqlTable IncrementalLoadPi... x

Saved Save as template Validate Debug Trigger (1)

Lookup LookupMinDate

Copy data Copy data1

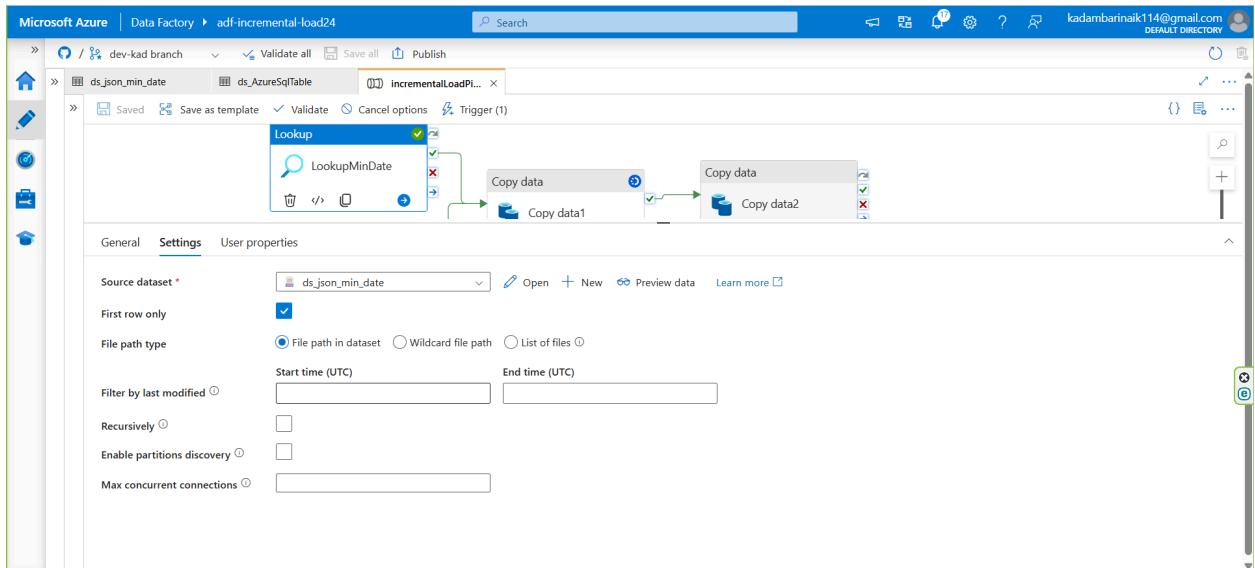
Copy data Copy data2

Lookup LookupMaxDate

Parameters Variables Settings Output

Showing 1 - 4 of 4 items

Activity name	Activity st...	Activit...	Run start	Duration	Integration runtime	User prop...	Activity run ID
Copy data2	<input checked="" type="checkbox"/> Succeeded	Copy data	12/6/2025, 8:23:27 PM	13s	AutoResolveIntegrationRuntime (Central India)	46744831-75c4-4044-9cf1-a66189219024	
Copy data1	<input checked="" type="checkbox"/> Succeeded	Copy data	12/6/2025, 8:23:12 PM	15s	AutoResolveIntegrationRuntime (Central India)	77d7c085-8deb-49ed-bbce-07b224aae01d	
LookupMaxDate	<input checked="" type="checkbox"/> Succeeded	Lookup	12/6/2025, 8:23:06 PM	5s	AutoResolveIntegrationRuntime (Central India)	604fd8da-e506-4118-aefe-66e3d8da8daa	
LookupMinDate	<input checked="" type="checkbox"/> Succeeded	Lookup	12/6/2025, 8:23:06 PM	4s	AutoResolveIntegrationRuntime (Central India)	854868e7-1362-405a-bb7b-350ace351d75	



Microsoft Azure | technopracticesoacc | Storage browser

Storage account

minLoadDate.json

Blob

Save Discard Download Refresh Delete

Overview Versions Edit Generate SAS

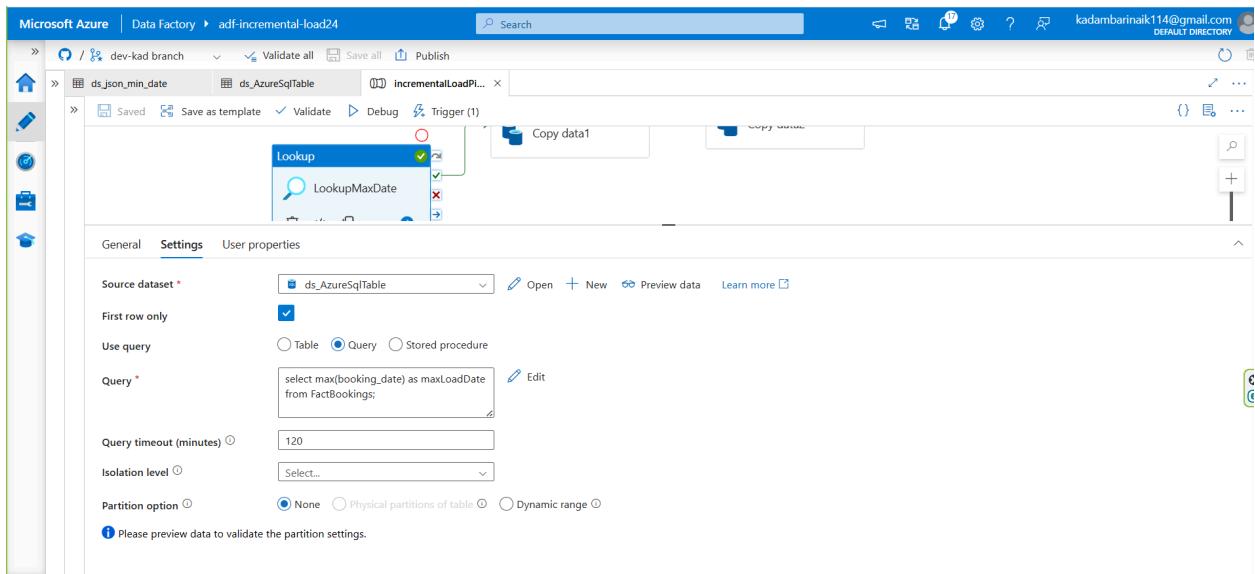
```
1 [ {"minLoadDate": "2024-06-27T00:00:00"} ]
```

View all Blob container Slogs destination input container

Storage browser

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser
- Partner solutions
- Resource visualizer
- Data storage
- Security + networking
- Data management
- Settings
- Monitoring
- Monitoring (classic)

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```
CREATE TABLE FactBookings (
    booking_id INT PRIMARY KEY,
    passenger_id INT,
    flight_id INT,
    airline_id INT,
    origin_airport_id INT,
    destination_airport_id INT,
    booking_date DATE,
    ticket_cost DECIMAL(10,2),
    flight_duration_mins INT,
    checkin_status VARCHAR(10)
);

INSERT INTO FactBookings VALUES (1, 90, 187, 8, 6, 3, '2025-04-20',
167.19, 178, 'Yes');
INSERT INTO FactBookings VALUES (2, 49, 110, 8, 9, 8, '2025-01-30',
475.86, 256, 'Yes');
INSERT INTO FactBookings VALUES (3, 93, 187, 10, 3, 9, '2025-05-23',
399.53, 607, 'Yes');
INSERT INTO FactBookings VALUES (4, 18, 149, 3, 9, 2, '2025-05-24',
809.63, 306, 'No');
INSERT INTO FactBookings VALUES (5, 7, 190, 2, 8, 1, '2025-02-01', 933.3,
576, 'No');
INSERT INTO FactBookings VALUES (6, 85, 191, 4, 8, 6, '2025-01-31',
264.49, 258, 'Yes');
INSERT INTO FactBookings VALUES (7, 64, 113, 9, 7, 2, '2025-01-20',
867.46, 712, 'No');
INSERT INTO FactBookings VALUES (8, 69, 144, 8, 7, 9, '2025-06-12',
294.69, 416, 'No');
```

```
INSERT INTO FactBookings VALUES (9, 93, 176, 8, 10, 7, '2025-03-10',  
876.94, 709, 'No');  
INSERT INTO FactBookings VALUES (10, 8, 108, 4, 5, 3, '2025-06-27',  
792.65, 387, 'No');  
INSERT INTO FactBookings VALUES (11, 100, 179, 4, 3, 5, '2025-06-21',  
266.41, 272, 'No');  
INSERT INTO FactBookings VALUES (12, 84, 121, 3, 6, 4, '2025-05-31',  
229.41, 594, 'No');  
INSERT INTO FactBookings VALUES (13, 20, 161, 3, 10, 7, '2025-02-23',  
792.58, 377, 'Yes');  
INSERT INTO FactBookings VALUES (14, 79, 158, 9, 10, 2, '2025-05-11',  
539.61, 261, 'Yes');  
INSERT INTO FactBookings VALUES (15, 71, 181, 5, 3, 1, '2025-02-08',  
190.16, 156, 'Yes');  
INSERT INTO FactBookings VALUES (16, 19, 200, 3, 8, 3, '2025-04-19',  
535.82, 114, 'No');  
INSERT INTO FactBookings VALUES (17, 35, 105, 10, 1, 9, '2025-06-18',  
326.17, 247, 'No');  
INSERT INTO FactBookings VALUES (18, 18, 118, 5, 9, 10, '2025-05-05',  
496.55, 136, 'Yes');  
INSERT INTO FactBookings VALUES (19, 4, 172, 3, 8, 7, '2025-03-09',  
813.45, 176, 'Yes');  
INSERT INTO FactBookings VALUES (20, 73, 154, 7, 1, 3, '2025-03-13',  
392.4, 513, 'No');  
INSERT INTO FactBookings VALUES (21, 26, 135, 4, 6, 10, '2025-04-03',  
628.92, 195, 'Yes');  
INSERT INTO FactBookings VALUES (22, 21, 113, 2, 1, 2, '2025-05-20',  
236.57, 277, 'No');  
INSERT INTO FactBookings VALUES (23, 98, 163, 8, 10, 8, '2025-01-12',  
895.7, 608, 'No');  
INSERT INTO FactBookings VALUES (24, 66, 121, 4, 10, 3, '2025-06-14',  
470.99, 480, 'No');  
INSERT INTO FactBookings VALUES (25, 92, 101, 7, 1, 7, '2025-01-12',  
459.78, 390, 'No');  
INSERT INTO FactBookings VALUES (26, 68, 179, 4, 10, 7, '2025-03-13',  
892.06, 366, 'Yes');  
INSERT INTO FactBookings VALUES (27, 19, 111, 1, 5, 2, '2025-03-07',  
546.57, 329, 'No');  
INSERT INTO FactBookings VALUES (28, 18, 114, 2, 7, 8, '2025-05-25',  
345.04, 238, 'No');  
INSERT INTO FactBookings VALUES (29, 19, 125, 4, 7, 5, '2025-01-26',  
451.77, 276, 'Yes');  
INSERT INTO FactBookings VALUES (30, 63, 180, 3, 1, 5, '2025-04-29',  
543.99, 625, 'No');
```

mydb (sqlservertechno/mydb) | Query editor (preview)

Query 1 x Query 2 x

```
1 SELECT TOP (1000) * FROM [dbo].[FactBookings]
```

booking_id	passenger_id	flight_id	airline_id	origin_airport_id
1	90	187	8	6
2	49	110	8	9
3	93	187	10	3

Query succeeded | 1s

Pipeline expression builder

```
select * from FactBookings where booking_date <= '@{activity('LookupMaxDate').output.firstRow.maxLoadDate}' and booking_date >= '@{activity('LookupMinDate').output.firstRow.minLoadDate}'
```

Activity outputs

- LookupMaxDate
- LookupMaxDate activity output
- LookupMaxDate first row
- Data of the first row
- LookupMinDate
- LookupMinDate activity output
- LookupMinDate first row
- Data of the first row

```
select * from FactBookings where booking_date <=
'@{activity('LookupMaxDate').output.firstRow.maxLoadDate}' and
booking_date >= '@{activity('LookupMinDate').output.firstRow.minLoadDate}'
```

The screenshot shows the Microsoft Azure Data Factory Pipeline expression builder. A pipeline named 'incrementalLoadPi...' is open. In the Sink tab, under 'Sink dataset', there is a 'Dataset properties' section. One of the properties, 'p_date_file_name', is set to the expression `@formatDateTime(activity('LookupMaxDate').output.firstRow.maxLoadDate, 'yyyy-MM-dd')`. This expression is highlighted in red.

```
@formatDateTime(activity('LookupMaxDate').output.firstRow.maxLoadDate,
'yyyy-MM-dd')
```

The screenshot shows the Microsoft Azure Data Factory Dataset properties for 'ds_destination_csv_format1'. Under the 'Connection' tab, the 'File path' field is set to `destinationcontainer / @concat(dataset().p_date_file_name, '.csv')`. This expression is highlighted in blue.

```
@concat(dataset().p_date_file_name, '.csv')
```

