Copy data to SQL DB

Now we will copy data of Cases and Deaths and Hospital admissions Daily processed files into Azure SQL DB tables.

Steps:

- First create a schema in Azure SQL DB and create the required tables with the script attached.
- Once created, create a linked service to SQL DB. Please refer to attached screenshot for reference:

- After this create a pipeline and create two copy data activities to copy data from the Data Lake Cases and Deaths and Hospital Admissions processed files which are stored there after data flow execution.
- As we want to have latest data always in our table so we can also have one pre-copy script:
  TRUNCATE TABLE tablename;
  in our case, TRUNCATE TABLE covid_reporting.cases_and_deaths
  TRUNCATE TABLE covid_reporting.hospital_admissions_daily
- Create a dataset to Azure SQL DB linked service and select the required
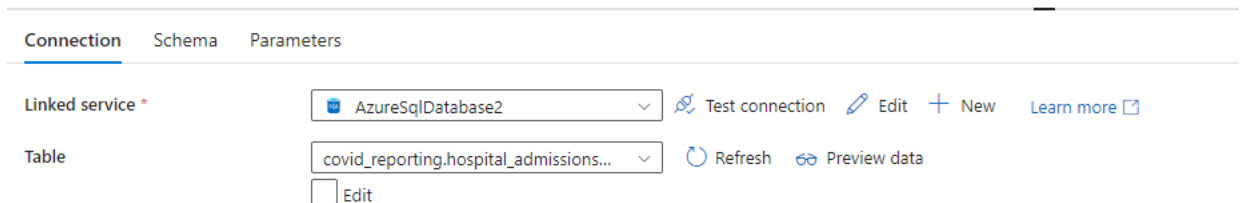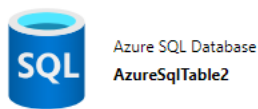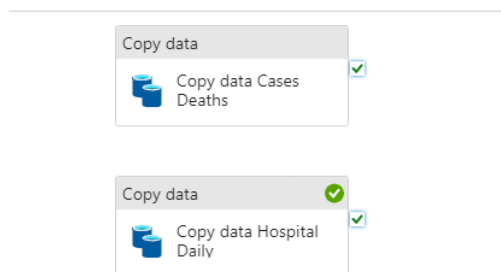

table there.

- After this create copy data activities using the dataflow processed datasets for these files and this azure sql db dataset
- In sink, define the pre-copy script to truncate the table before copy.

Copy data

Copy data Cases Deaths

| General | Source | Sink | Mapping | Settings | User properties |

data   Learn m

Sink dataset *   AzureSqlTable2   ✎ Open + New   Learn more ↗

Write behavior   ◉ Insert ○ Upsert ○ Stored procedure

Bulk insert table lock ⓘ   ○ Yes ◉ No

Table option   ◉ None ○ Auto create table ⓘ

Pre-copy script ⓘ   TRUNCATE TABLE
                        covid_reporting.cases_and_deaths

Copy data ✓

Copy data Hospital Daily

| General | Source | Sink | Mapping | Settings | User properties |

Sink dataset *   AzureSqlTable2   ✎ Open + New   Learn more

Write behavior   ◉ Insert ○ Upsert ○ Stored procedure

Bulk insert table lock ⓘ   ○ Yes ◉ No
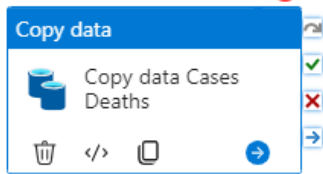
Table option   ◉ None ○ Auto create table ⓘ

Pre-copy script ⓘ   TRUNCATE TABLE
                        covid_reporting.hospital_admissions_daily

Write batch timeout ⓘ   e.g. 00:30:00

Copy data

Copy data Cases Deaths

| General | **Source** | Sink | Mapping | Settings | User properties |

Source dataset *   ☐ ds_processed_cases_deaths ∨   ✏ Open   ＋ New   👓 Preview data   Learn m

File path type   ● File path in dataset   ○ Wildcard file path   ○ List of files ⓘ

Filter by last modified ⓘ

Start time (UTC)	End time (UTC)

Recursively ⓘ   ☑

Enable partition discovery ⓘ   ☐
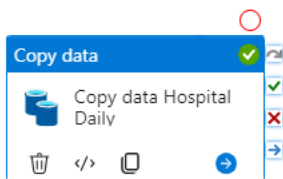
Copy data ✓

Copy data Hospital Daily

| General | **Source** | Sink | Mapping | Settings | User properties |

Source dataset *   ☐ ds_processsed_hospital_admissions_... ∨   ✏ Open   ＋ New   👓 Preview data   Learn mo

File path type   ● File path in dataset   ○ Wildcard file path   ○ List of files ⓘ

Filter by last modified ⓘ

Start time (UTC)	End time (UTC)

Recursively ⓘ   ☑

- After this you can query the data in these tables in DB. For example:

```
45
46    SELECT * from covid_reporting.cases_and_deaths;
```

Results   Messages

🔍 Search to filter items...

country	country_code_2_digit	country_code_3_digit	population	cases_count	deaths_count	report
Malta	MT	MLT	493559	78	0	2020-0
Spain	ES	ESP	46937060	11289	130	2020-0

Query succeeded | 1s