

## Screenshots of Successful Execution – ADF Udacity Project

### Pipeline to Load ADLS NYC Payroll 2021 data in Transaction SQL DB

The screenshot displays the Microsoft Azure Data Factory monitoring interface for a pipeline named 'pipeline\_load\_sqldb\_nycpayroll2021'. The pipeline run ID is 7913fbfb-d527-44d0-a9e1-a8711a84f6f5. The pipeline run status is 'Succeeded'.

**Activity runs**

| Activity name                     | Activity type | Run start                | Duration | Status    | Error | Log | Integration runtime       |
|-----------------------------------|---------------|--------------------------|----------|-----------|-------|-----|---------------------------|
| DataFlow - Load nycpayroll2021... | Data flow     | Nov 30, 2022, 11:37:12 p | 00:04:23 | Succeeded |       |     | AutoResolveIntegration... |

### Data loaded in SQL DB

The screenshot displays the Microsoft Azure SQL Database query editor for the database 'db\_nycpayroll'. The query executed is:

```
select * from [dbo].[NYC_Payroll_Data]
```

The query results are shown in a table with the following columns: FiscalYear, PayrollNumber, AgencyID, AgencyName, and EmployeeID.

| FiscalYear | PayrollNumber | AgencyID | AgencyName                   | EmployeeID |
|------------|---------------|----------|------------------------------|------------|
| 2021       | 996           | 2153     | NYC HOUSING AUTHORITY        | 209184     |
| 2021       | 996           | 2153     | NYC HOUSING AUTHORITY        | 302330     |
| 2021       | 816           | 2129     | DEPT OF HEALTH/MENTAL HYG... | 49788      |
| 2021       | 816           | 2129     | DEPT OF HEALTH/MENTAL HYG... | 251626     |

### Pipeline Structure for Loading data from ADLS and SQL DB into Synapse

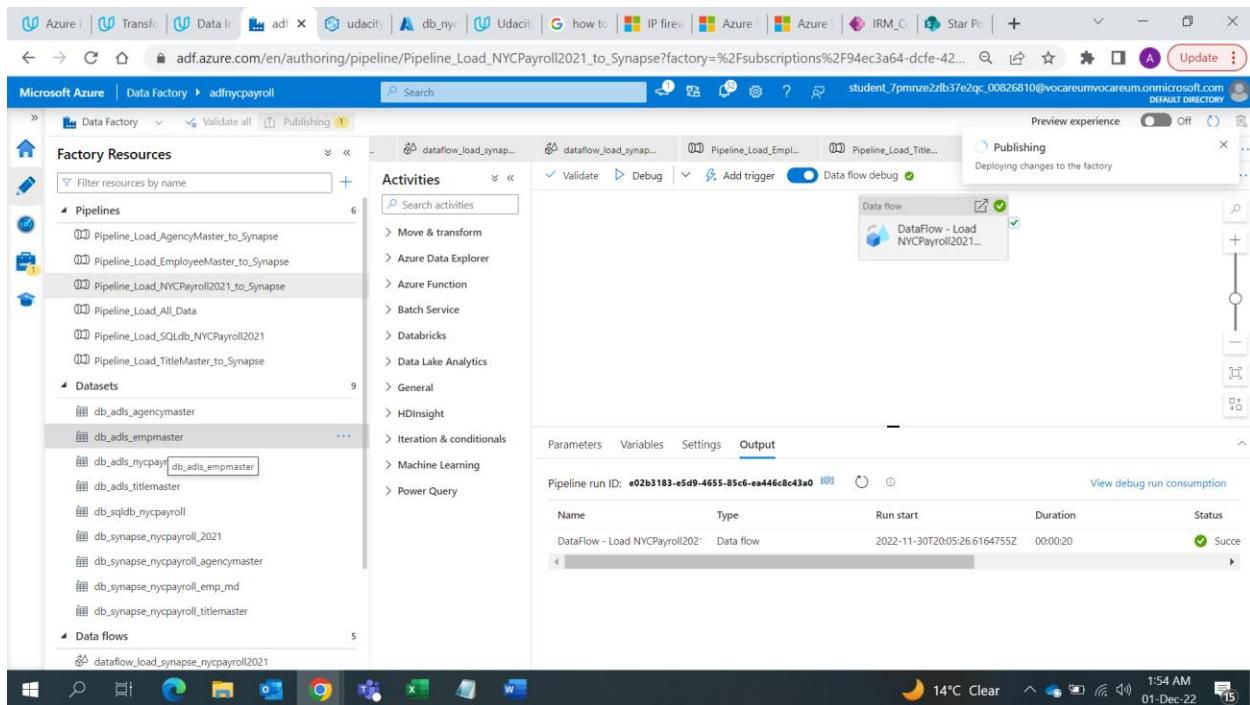
**Pipeline runs**

| Pipeline name                     | Data flow | Run start                    | Run end  | Duration    | Status     | Triggered by |
|-----------------------------------|-----------|------------------------------|----------|-------------|------------|--------------|
| DataFlow - Load NYC Payroll2021   | Data flow | 2022-11-30T20:13:50.8966047Z | 00:00:20 | ✓ Succeeded | debugpool- |              |
| DataFlow - Load Employee Master   | Data flow | 2022-11-30T20:13:13.7526891Z | 00:00:36 | ✓ Succeeded | debugpool- |              |
| DataFlow - Load Title Master in S | Data flow | 2022-11-30T20:13:13.096431Z  | 00:00:23 | ✓ Succeeded | debugpool- |              |
| DataFlow - Load NYC Payroll2021   | Data flow | 2022-11-30T20:13:13.0808083Z | 00:00:19 | ✓ Succeeded | debugpool- |              |
| DataFlow - Load ADLS Data in SC   | Data flow | 2022-11-30T20:12:51.5701778Z | 00:00:21 | ✓ Succeeded | debugpool- |              |

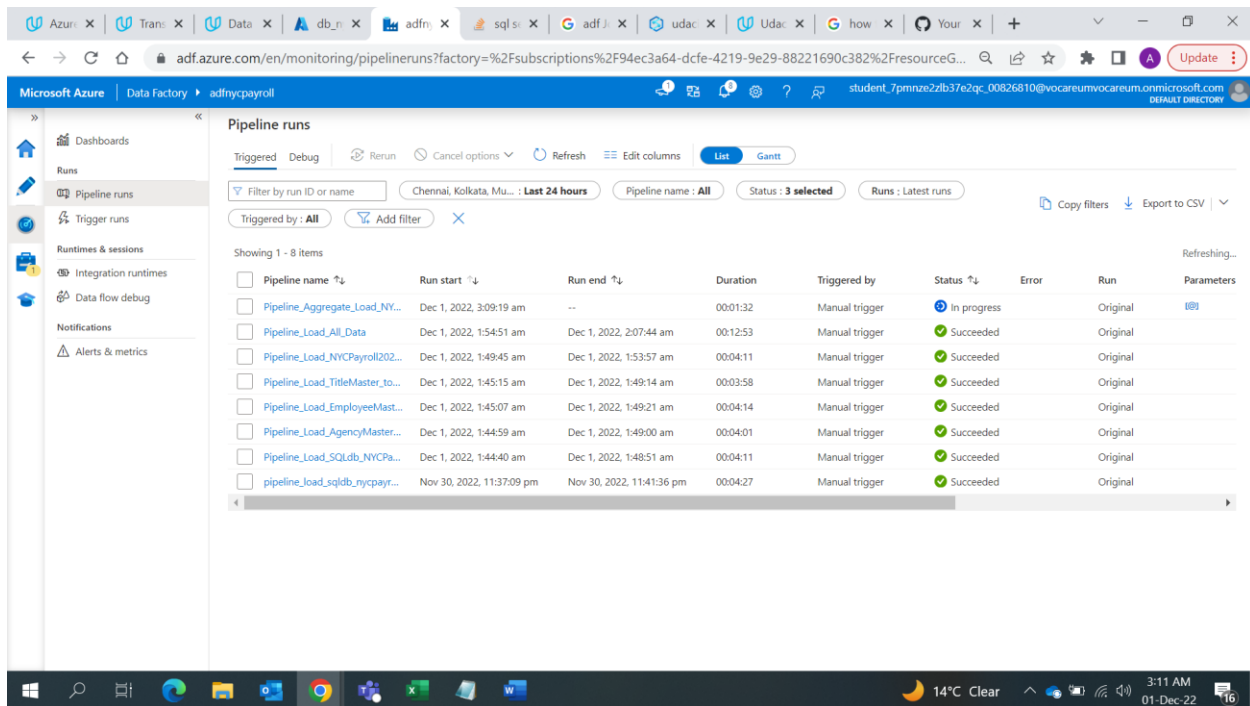
After Successful Pipeline Run for all data load pipelines to Synapse:

**Pipeline runs**

| Pipeline name                            | Run start                 | Run end                   | Duration | Triggered by   | Status      | Error | Run      |
|--|---------------------------|---------------------------|----------|----------------|-------------|-------|----------|
| Pipeline_Load_NYCPayroll2021_to_Synapse  | Dec 1, 2022, 1:49:45 am   | Dec 1, 2022, 1:53:57 am   | 00:04:11 | Manual trigger | ✓ Succeeded |       | Original |
| Pipeline_Load_TitleMaster_to_Synapse     | Dec 1, 2022, 1:45:15 am   | Dec 1, 2022, 1:49:14 am   | 00:03:58 | Manual trigger | ✓ Succeeded |       | Original |
| Pipeline_Load_EmployeeMaster_to_Synapse  | Dec 1, 2022, 1:45:07 am   | Dec 1, 2022, 1:49:21 am   | 00:04:14 | Manual trigger | ✓ Succeeded |       | Original |
| Pipeline_Load_AgencyMaster_to_Synapse... | Dec 1, 2022, 1:44:59 am   | Dec 1, 2022, 1:49:00 am   | 00:04:01 | Manual trigger | ✓ Succeeded |       | Original |
| Pipeline_Load_SQLdb_NYCPayroll2021       | Dec 1, 2022, 1:44:40 am   | Dec 1, 2022, 1:48:51 am   | 00:04:11 | Manual trigger | ✓ Succeeded |       | Original |
| pipeline_load_sqldb_nycpayroll2021       | Nov 30, 2022, 11:37:09 pm | Nov 30, 2022, 11:41:36 pm | 00:04:27 | Manual trigger | ✓ Succeeded |       | Original |



Successfully implemented master data load pipeline from ADLS and SQL DB to Synapse



After all Pipeline runs including Aggregate Pipeline:

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### Pipeline runs

Triggered Debug Rerun Cancel options Refresh Edit columns List Gantt

Filter by run ID or name Chennai, Kolkata, Mu... : Last 24 hours Pipeline name: All Status: 3 selected Runs: Latest runs Copy filters Export to CSV

Triggered by: All Add filter

Showing 1 - 8 items

| Pipeline name                   | Run start                 | Run end                   | Duration | Triggered by   | Status    | Error | Run      | Parameters |
|---------------------------------|---------------------------|---------------------------|----------|----------------|-----------|-------|----------|------------|
| Pipeline_Aggregate_Load_NY...   | Dec 1, 2022, 3:09:19 am   | Dec 1, 2022, 3:13:59 am   | 00:04:40 | Manual trigger | Succeeded |       | Original |            |
| Pipeline_Load_All_Data          | Dec 1, 2022, 1:54:51 am   | Dec 1, 2022, 2:07:44 am   | 00:12:53 | Manual trigger | Succeeded |       | Original |            |
| Pipeline_Load_NYCPayroll202...  | Dec 1, 2022, 1:49:45 am   | Dec 1, 2022, 1:53:57 am   | 00:04:11 | Manual trigger | Succeeded |       | Original |            |
| Pipeline_Load_TitleMaster_to... | Dec 1, 2022, 1:45:15 am   | Dec 1, 2022, 1:49:14 am   | 00:03:58 | Manual trigger | Succeeded |       | Original |            |
| Pipeline_Load_EmployeeMast...   | Dec 1, 2022, 1:45:07 am   | Dec 1, 2022, 1:49:21 am   | 00:04:14 | Manual trigger | Succeeded |       | Original |            |
| Pipeline_Load_AgencyMaster...   | Dec 1, 2022, 1:44:59 am   | Dec 1, 2022, 1:49:00 am   | 00:04:01 | Manual trigger | Succeeded |       | Original |            |
| Pipeline_Load_SQLdb_NYCPa...    | Dec 1, 2022, 1:44:40 am   | Dec 1, 2022, 1:48:51 am   | 00:04:11 | Manual trigger | Succeeded |       | Original |            |
| pipeline_load_sqldb_nycpayr...  | Nov 30, 2022, 11:37:09 pm | Nov 30, 2022, 11:41:36 pm | 00:04:27 | Manual trigger | Succeeded |       | Original |            |

Last refreshed 0 minutes ago

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### Pipeline\_Aggregate\_Load\_NYCPayroll\_Summary\_to\_Synapse

List Gantt

Rerun Rerun from activity Rerun from failed activity Refresh Update pipeline

Data flow Dataflow - Aggregate 2021...

### Activity runs

Pipeline run ID 504956a5-65ed-463f-85cf-b30da4323dff

All status

Showing 1 - 1 items

| Activity name                  | Activity type | Run start               | Duration | Status    | Error | Log | Integration runtime     |
|--------------------------------|---------------|-------------------------|----------|-----------|-------|-----|-------------------------|
| Dataflow - Aggregate 2021 a... | Data flow     | Dec 1, 2022, 3:09:20 am | 00:04:38 | Succeeded |       |     | AutoResolveIntegrationF |

The screenshot shows the Microsoft Azure Data Factory portal. The left sidebar contains navigation links: Dashboards, Runs, Pipeline runs (selected), Trigger runs, Runtime sessions, Integration runtimes, Data flow debug, Notifications, and Alerts & metrics. The main content area displays the 'Dataflow - Aggregate 2021 and 2020 data' with a status of 'Success'. Below the dataflow diagram, a 'Sinks' table shows the output to 'SinkSynapseNYCSummaryTable'.

| Sink                       | Status    | Processing time | Highest processing time | Rows written | Stages | Lineage |
|----------------------------|-----------|-----------------|-------------------------|--------------|--------|---------|
| SinkSynapseNYCSummaryTable | Succeeded | 39s             | 8s                      | 25           |        |         |