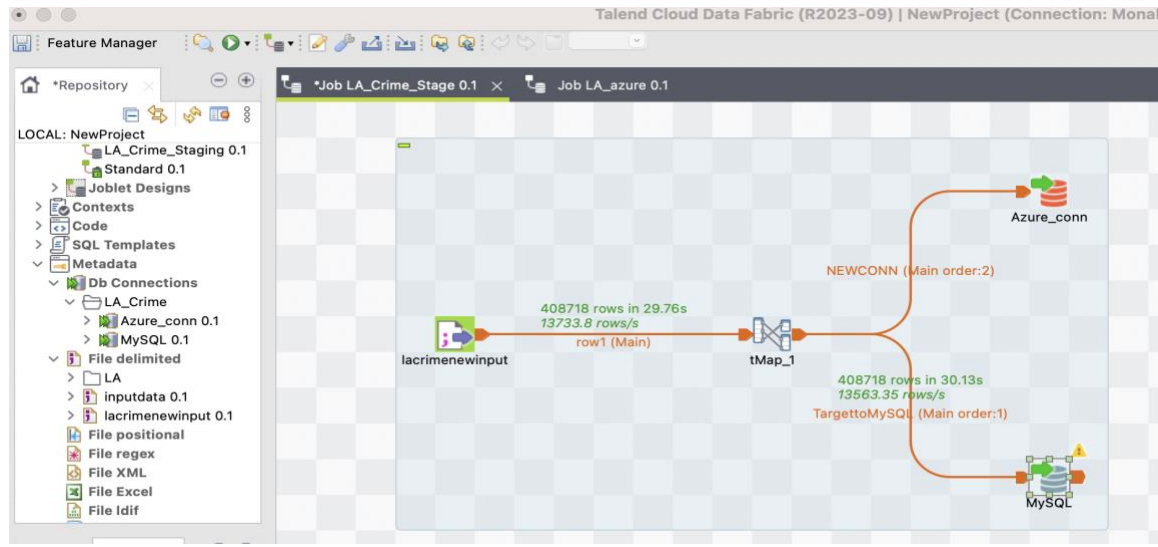


Name: Monalika Pradhan  
NUID: 002768020

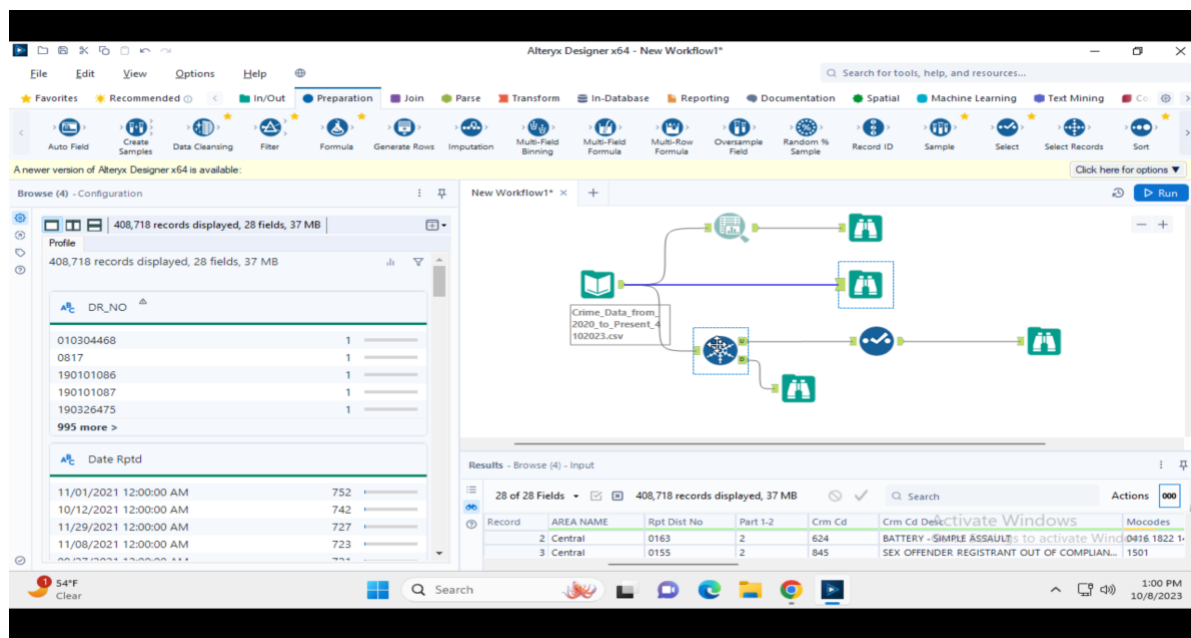
## DAMG 7370 Designing Advanced Data Architectures for Business Intelligence

### Individual Assignment: Screenshots of Talend Data Studio

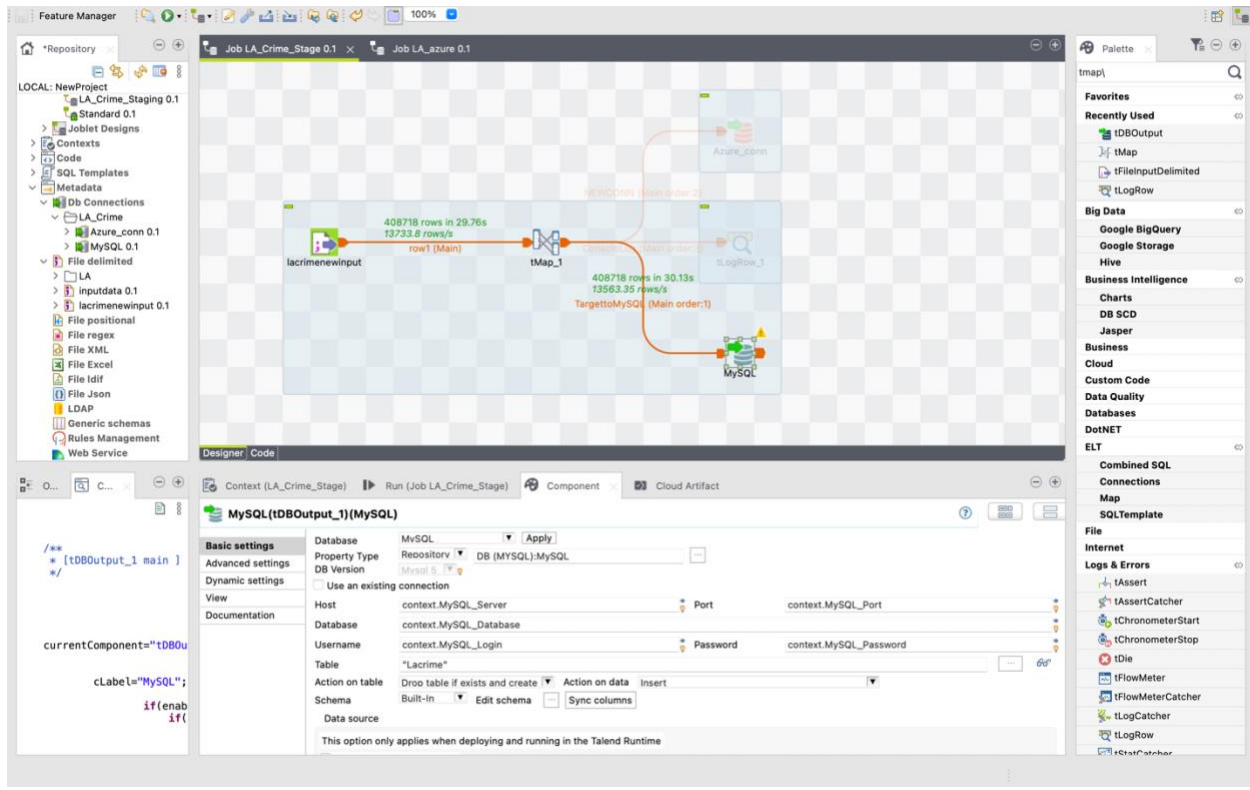
#### Pipeline Screenshot:



#### Alteryx Workflow Screenshot:



## Stage Pipeline to MySQL



## Data Populated in MySQL:

- Count of rows:

The screenshot displays the Talend Studio interface showing the SQL query and the resulting data grid. The query is:

```
1 • SELECT * FROM Monalika.Lacrime;
2 • Select count(*) from Monalika.Lacrime;
```

The resulting data grid shows the count of rows in the Lacrime table:

count(*)
408718

## • Table:

The screenshot displays a database management interface with a query result grid. The query executed is:

```
1 * SELECT * FROM Monalika.Lacrima;
2 * Select count(*) from Monalika.Lacrima;
```

The result grid shows columns: DR\_NO, Date\_Rptd, DATE\_OCC, TIME\_OCC, AREA, AREA\_NAME, Rpt\_Dist\_No, Part\_1\_2, Crm\_Cd, and Crm\_Cd\_Desc. The data includes various crime records with details like date, time, location, and description.

On the right side, a context help message is visible:

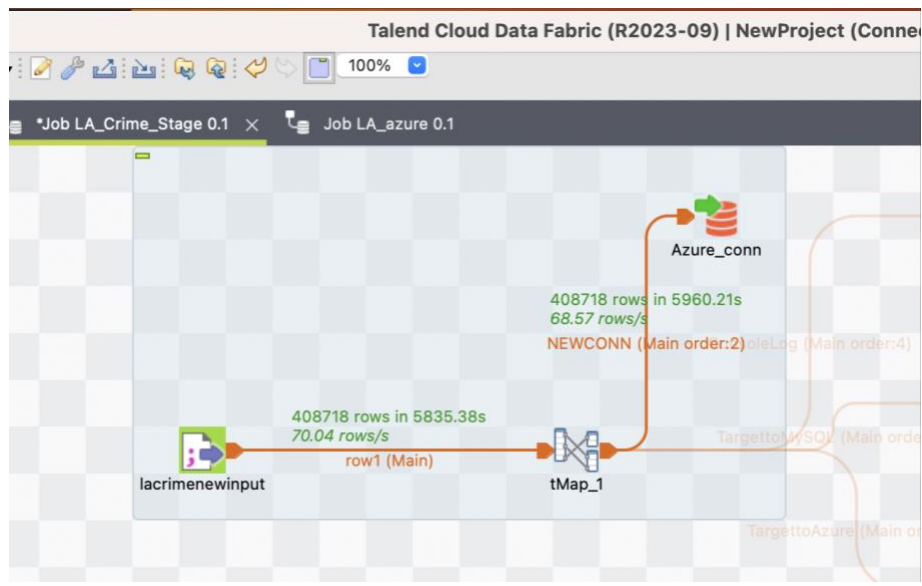
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

## Stage Pipeline to Azure:

The screenshot shows the Talend Studio interface with a stage pipeline configuration. The pipeline includes a 'tMap\_1' component connected to a 'tDBOutput\_3' component (Microsoft SQL Server). The configuration details for 'tDBOutput\_3' are as follows:

Basic settings	JDBC Provider	Host	Port	Schema
Advanced settings	Microsoft	context.Azure_conn_Server	context.Azure_conn_Port	context.Azure_conn_Schema
Dynamic settings		context.Azure_conn_Database		
View		Username	Password	context.Azure_conn_Password
Documentation		Table		"LACRIME1"

The 'Action on table' section is configured to 'Insert' data into the table. The 'Data source' is set to 'Built-in'.



## Data Populated in Azure Data Studio:

- Count of rows:**

SQLQuery\_4 - demo-mona.database.windows.net.Mona\_Pradhan\_demo (Monalika)

CONNECTIONS

SERVERS

Monalika.LACRIME1

Columns

- DR\_NO (bigint, null)
- Date\_Rptd (datetime, null)
- DATE\_OCC (datetime, null)
- TIME\_OCC (bigint, null)
- AREA (int, null)
- AREA\_NAME (varchar(256), null)
- Rpt\_Dist\_No (int, null)
- Part\_1\_2 (int, null)
- Crm\_Cd (int, null)
- Crm\_Cd\_Desc (varchar(2000), null)
- Mocodes (varchar(256), null)
- Vict\_Age (int, null)
- Vict\_Pwr (varchar(256), null)

AZURE

Monalika Pradhan - pradhan.mon@northeastern.edu

SQLQuery\_1 - disconnected

SQLQuery\_3 - disconnected 1

SQLQuery\_4 - demo-mona.database.windows.net.Mona\_Pradhan\_demo (Monalika)

Run Cancel Disconnect Change Database: Mona\_Pradhan\_demo Estimated Plan Enable #

To Notebook

```
31 select COUNT(*) FROM [MonaLika].[LACRIME1]
32 select * FROM [MonaLika].[LACRIME1]
```

Results Messages

(No column name) v

1	408718
---	--------

- **Table:**

SQLQuery\_4 - demo-mona.database.windows.net.Mona\_Pradhan\_demo (Monalika)

CONNECTIONS: Servers > Monalika.LACRIME1 > Columns

- DR\_NO (bigint, null)
- Date\_Rptd (datetime, null)
- DATE\_OCC (datetime, null)
- TIME\_OCC (bigint, null)
- AREA (int, null)
- AREA\_NAME (varchar(256), null)
- Rpt\_Dist\_No (int, null)
- Part\_1\_2 (int, null)
- Crm\_Cd (int, null)
- Crm\_Cd\_Desc (varchar(2000), null)
- Mocodes (varchar(256), null)
- Vict\_Age (int, null)
- Vict\_Pcr (varchar(256), null)

SQLQuery\_4 - demo-m...nalika

Database: Mona\_Pradhan\_demo

31 select COUNT(\*) FROM [Monalika].[LACRIME1]

32 select \* FROM [Monalika].[LACRIME1]

	DR_NO	Date_Rptd	DATE_OCC	TIME_OCC	AREA	AREA_NAME	Rpt_Dist_No
1	10304468	2020-01-08 12:00:00.000	2020-01-08 12:00:00.000	2230	3	Southwest	377
2	190101006	2020-01-02 12:00:00.000	2020-01-01 12:00:00.000	330	1	Central	163
3	200110444	2020-04-14 12:00:00.000	2020-02-13 12:00:00.000	1200	1	Central	155
4	191501505	2020-01-01 12:00:00.000	2020-01-01 12:00:00.000	1730	15	N Hollywood	1543
5	191921269	2020-01-01 12:00:00.000	2020-01-01 12:00:00.000	415	19	Mission	1998
6	200100501	2020-01-02 12:00:00.000	2020-01-01 12:00:00.000	30	1	Central	163
7	200100502	2020-01-02 12:00:00.000	2020-01-02 12:00:00.000	1315	1	Central	161
8	200100504	2020-01-04 12:00:00.000	2020-01-04 12:00:00.000	40	1	Central	155
9	200100507	2020-01-04 12:00:00.000	2020-01-04 12:00:00.000	200	1	Central	101
10	201710201	2020-06-19 12:00:00.000	2020-05-26 12:00:00.000	1925	17	Devonshire	1708
11	200100509	2020-01-04 12:00:00.000	2020-01-04 12:00:00.000	2200	1	Central	192
12	200100510	2020-01-05 12:00:00.000	2020-01-05 12:00:00.000	955	1	Central	111
13	200100514	2020-01-05 12:00:00.000	2020-01-05 12:00:00.000	1355	1	Central	162
14	200100515	2020-01-07 12:00:00.000	2020-01-07 12:00:00.000	1638	1	Central	162
15	200100520	2020-01-08 12:00:00.000	2020-01-08 12:00:00.000	1805	1	Central	128
16	211916029	2021-11-26 12:00:00.000	2020-11-30 12:00:00.000	730	19	Mission	1916