1. **Download the attached file. Design a good database of the files/data.**
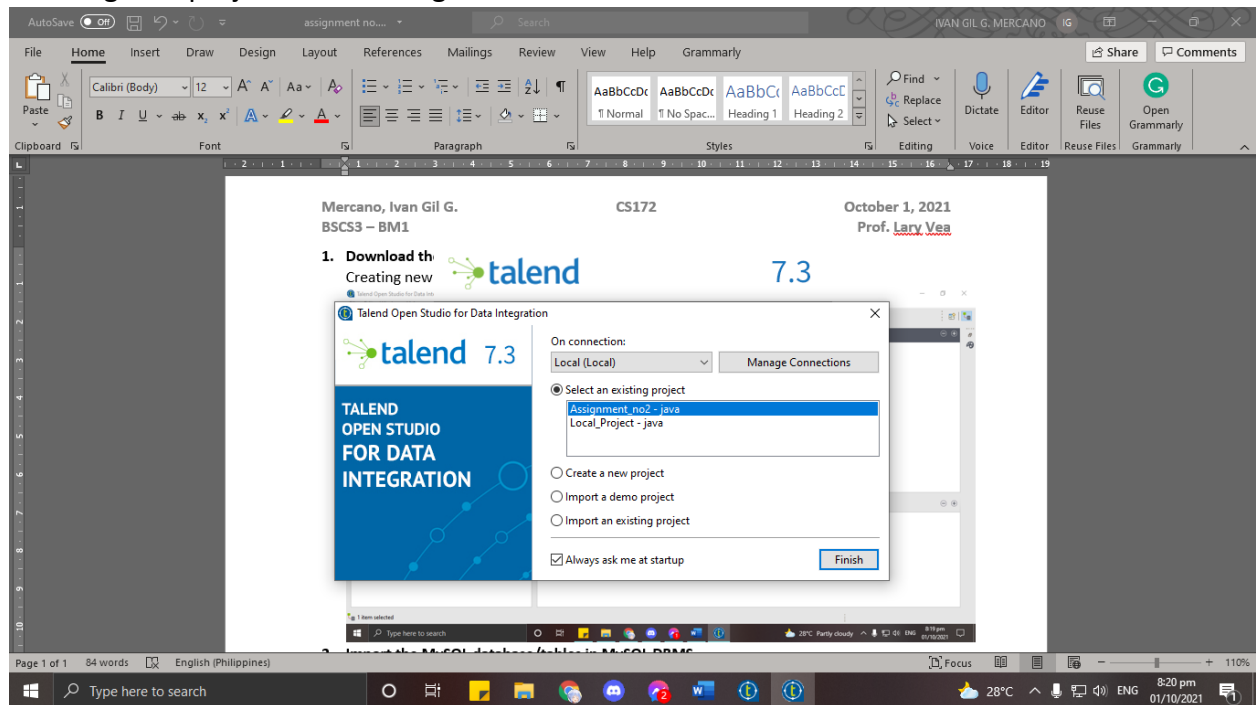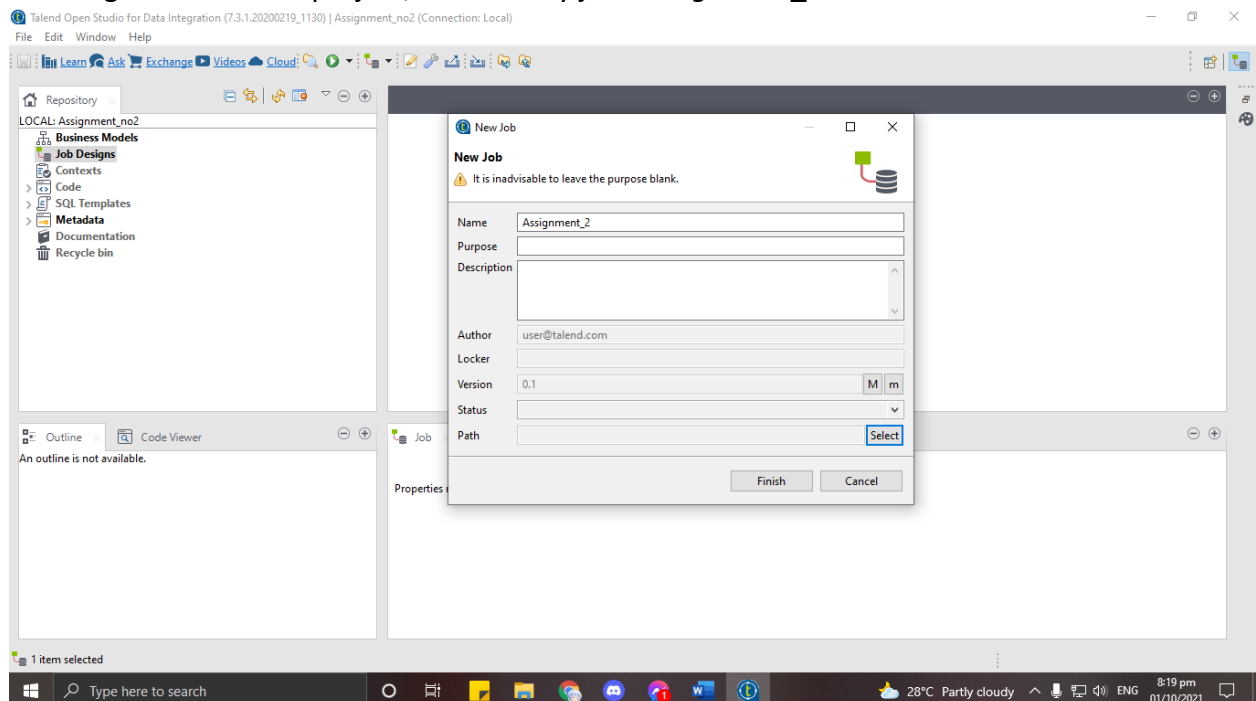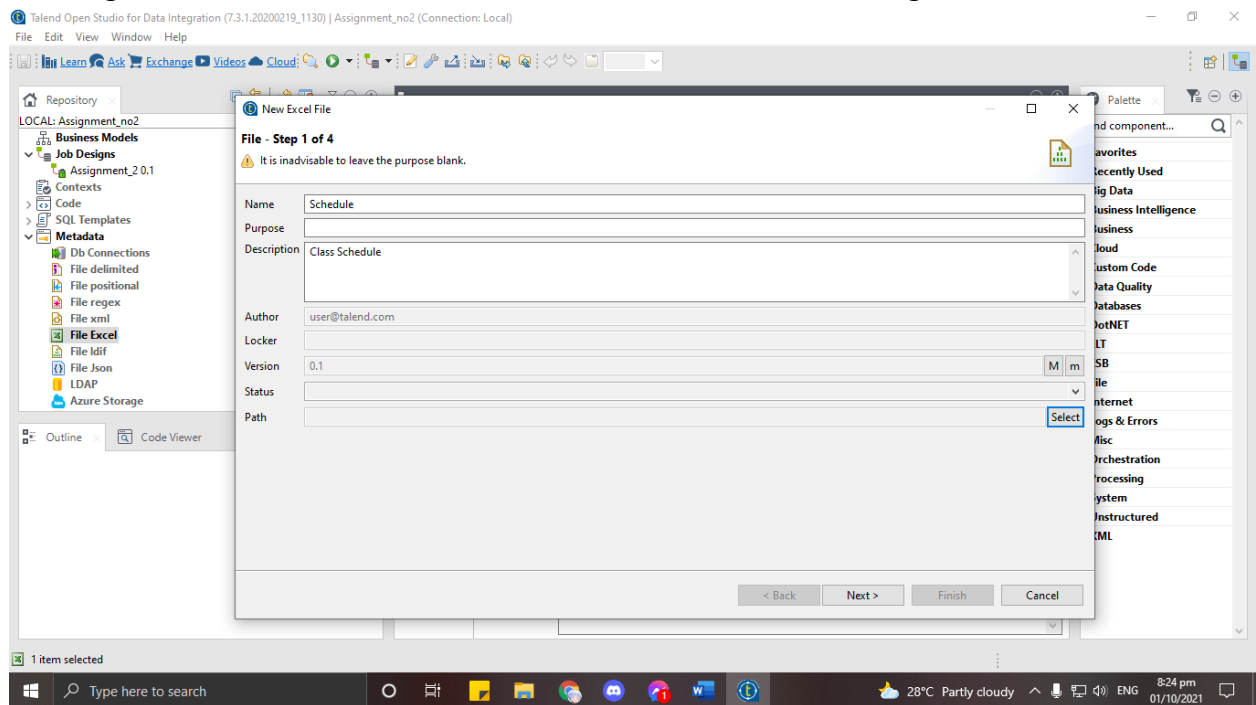
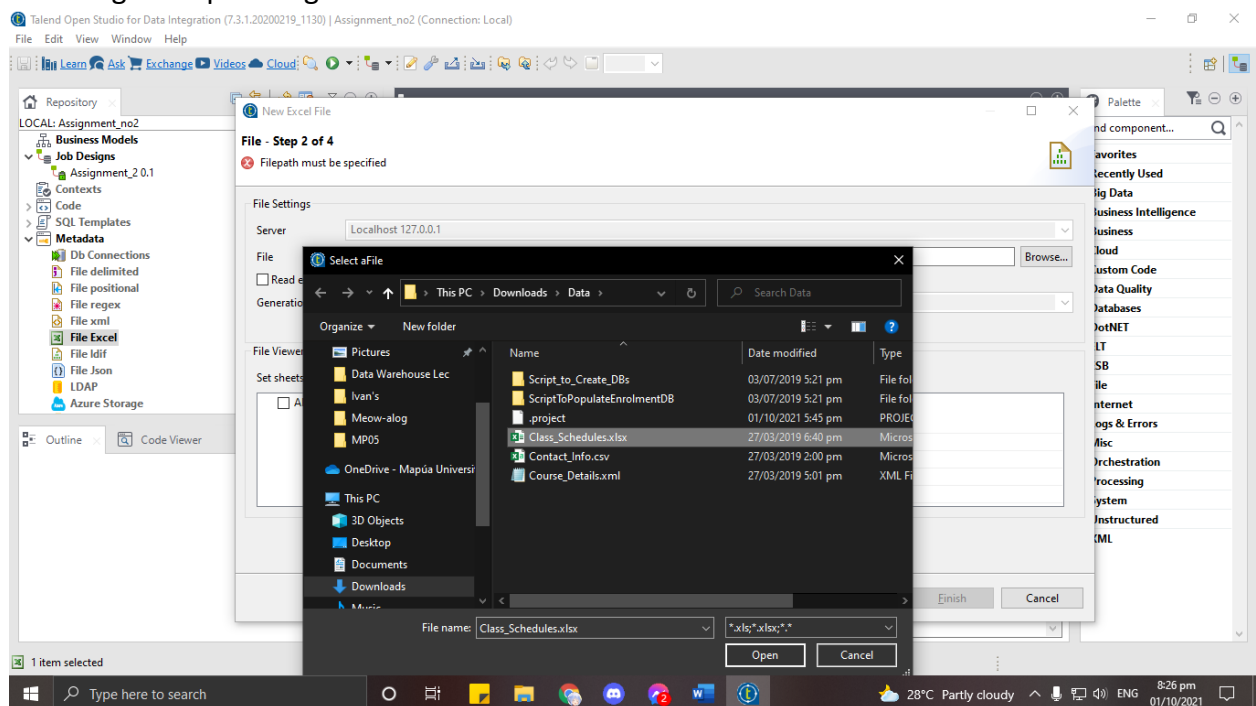   Creating new project for the assignment

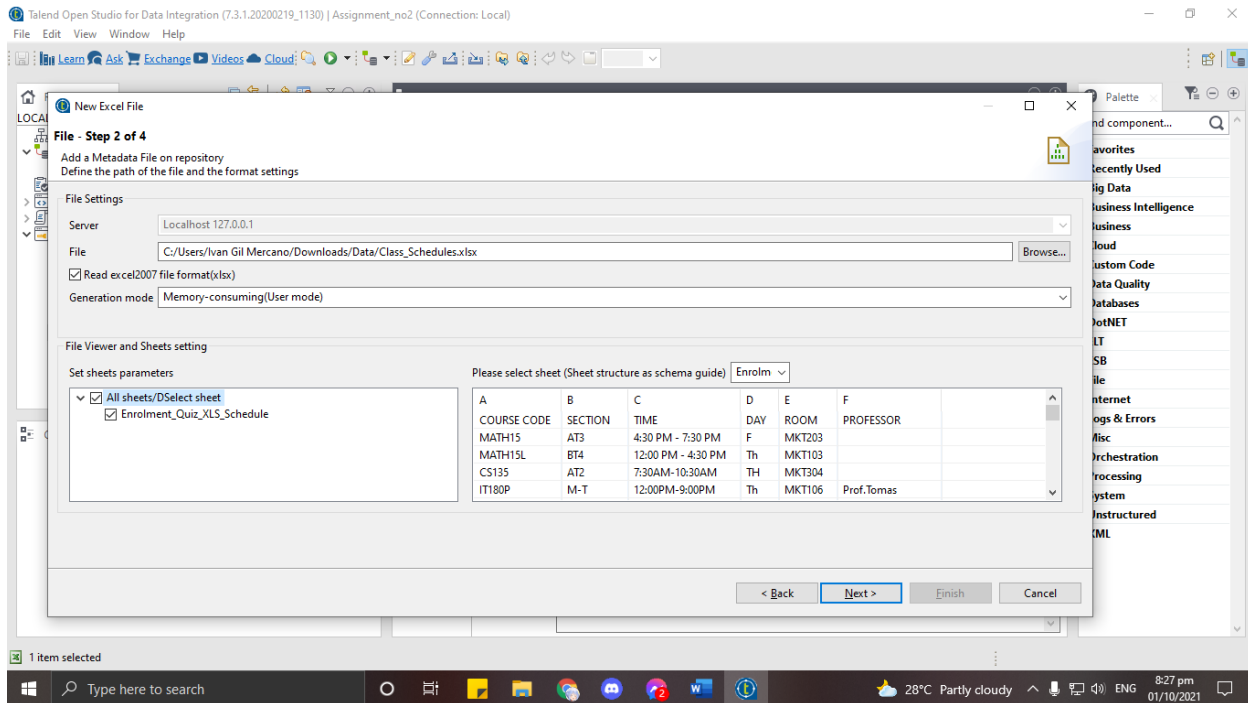   Creating Job inside the project, I named my job *"Assignment_2"*

Creating new Excel file for Class Schedule under metadata and naming it *"Schedule"*.
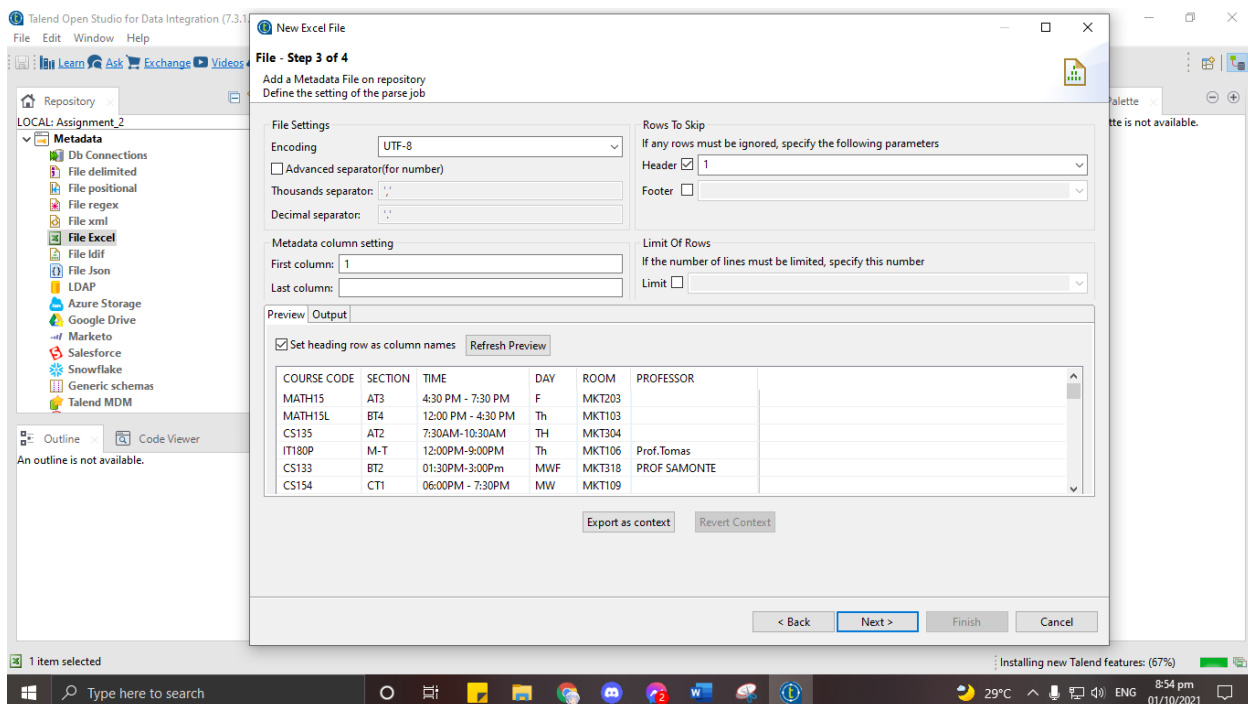

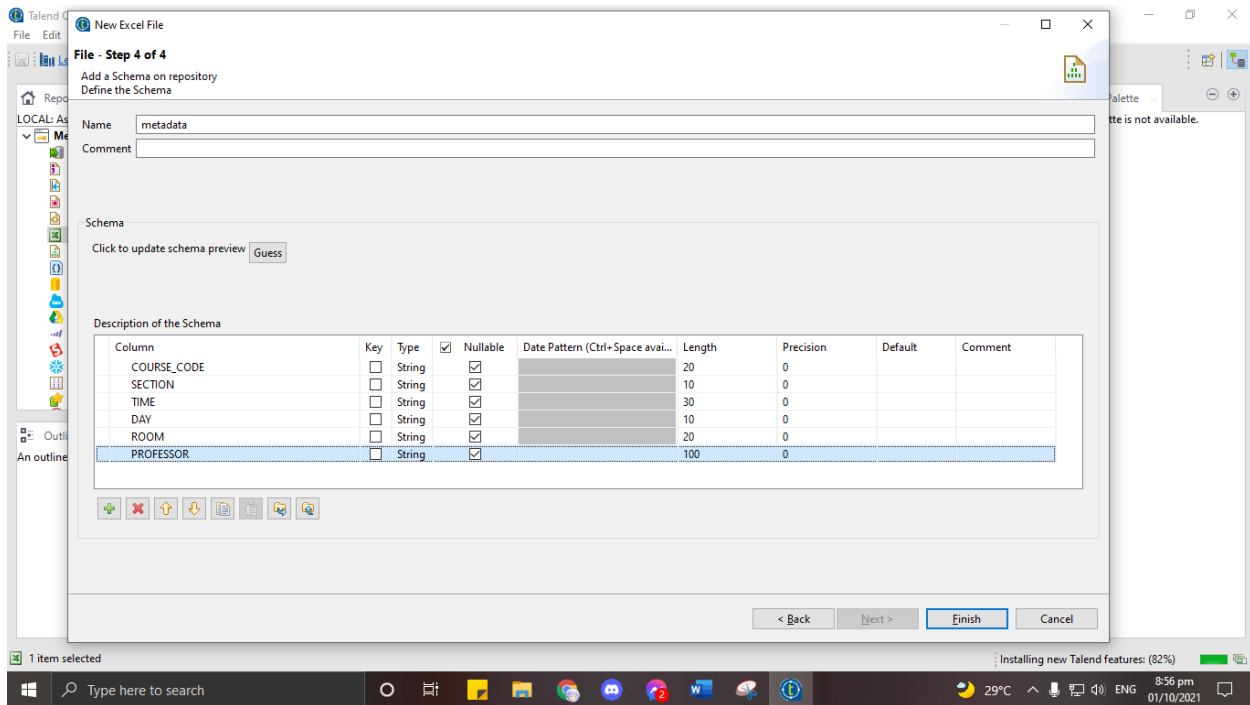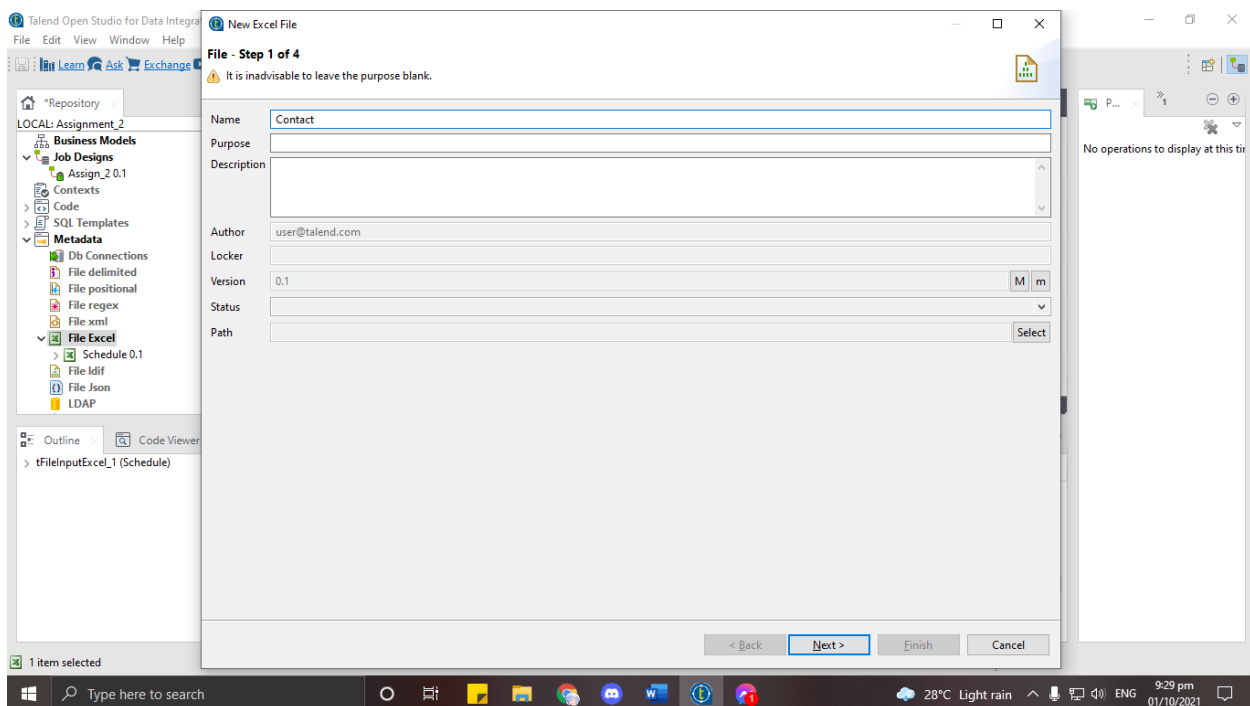Selecting and uploading the Class Schedule excel file
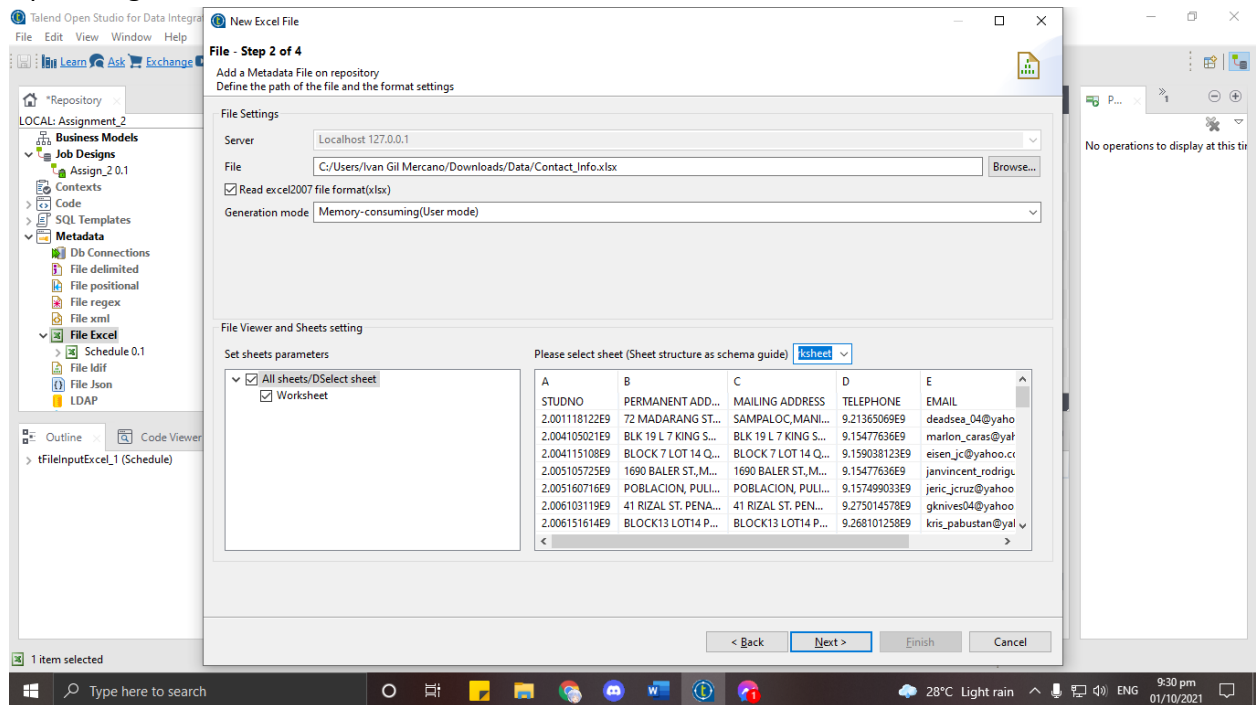
Defining the setting of parse job

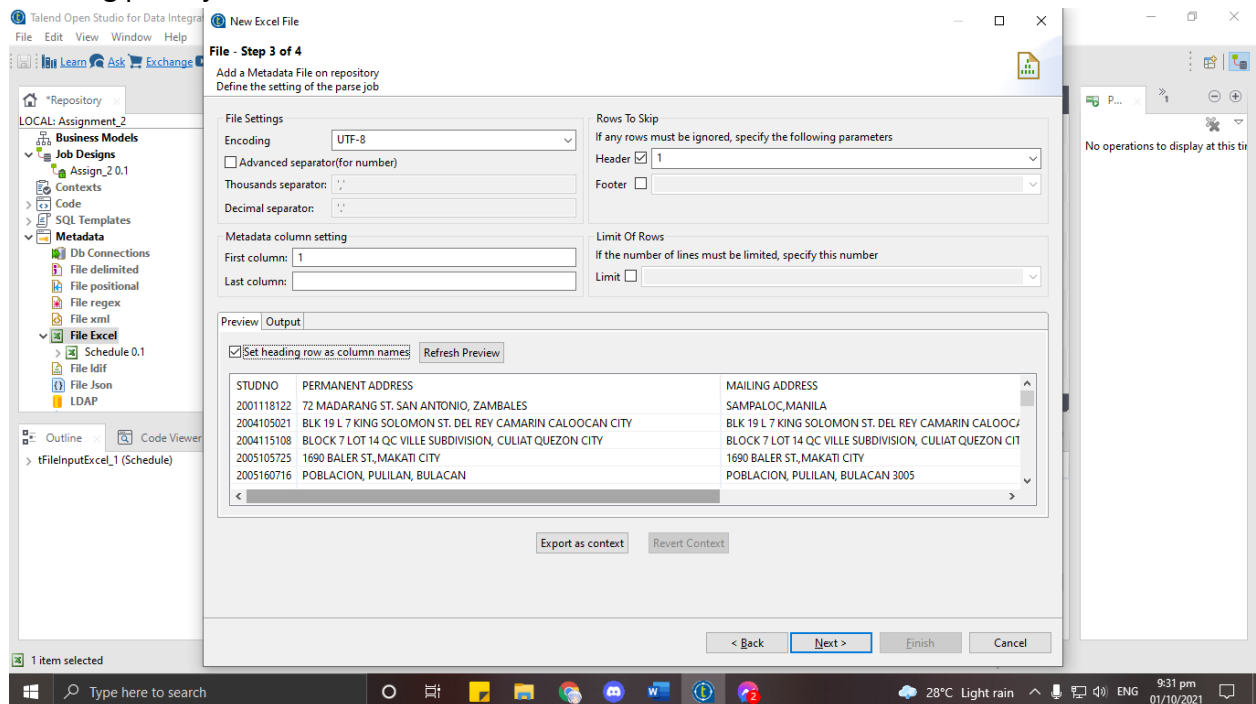Configuring the schema

Creating Excel file for contact info named "*Contact*"
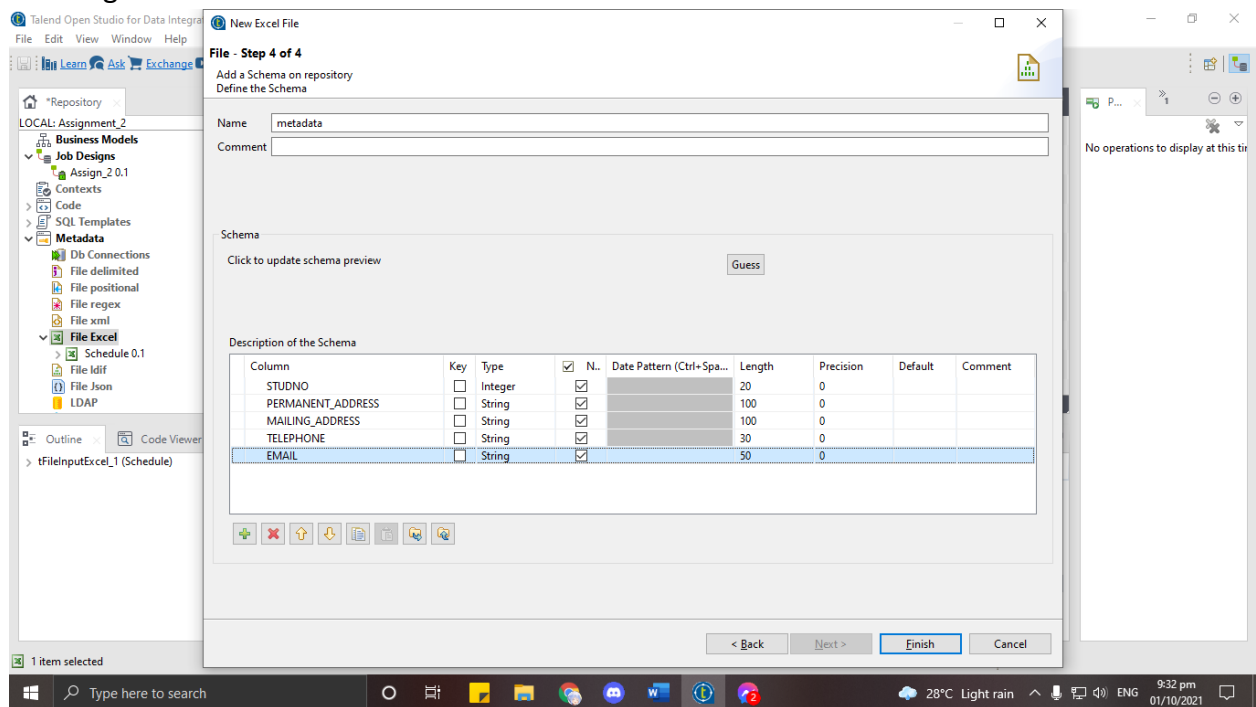
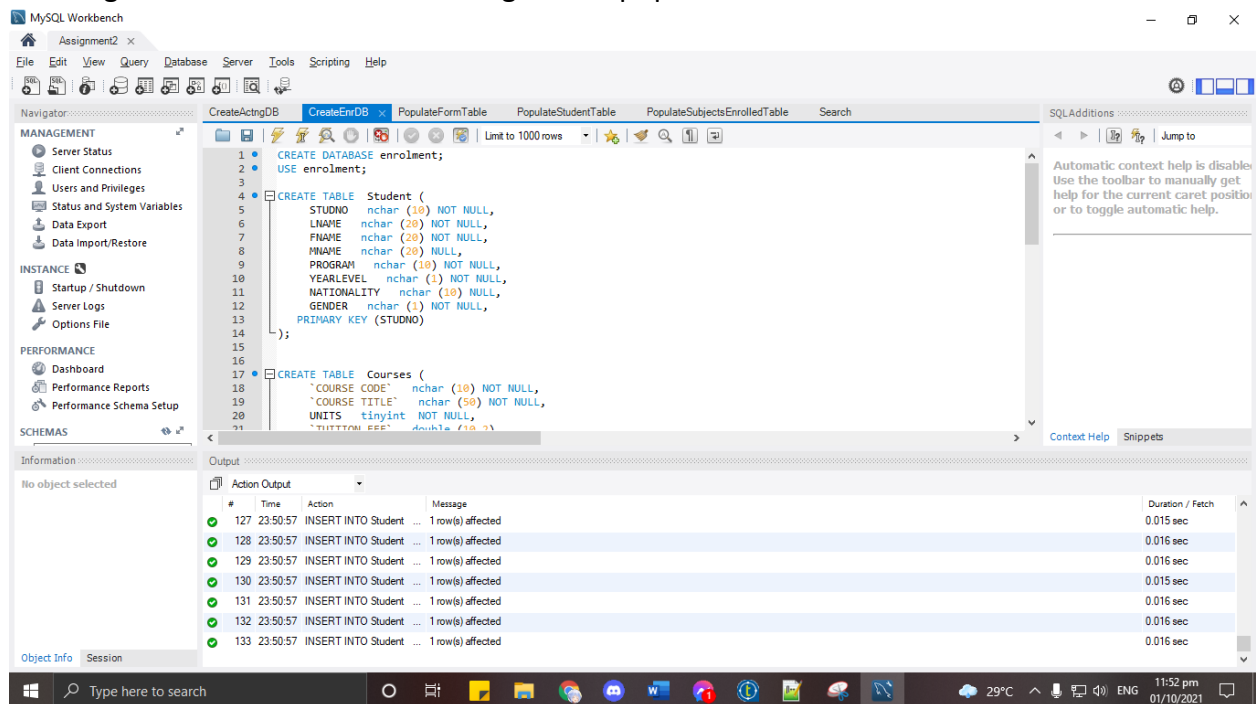## Uploading the excel file into the talend

Defining parse job

Defining the schema

Creating database for enrollment using the script provided

Creating database for accounting using the script provided

Populating Student Table

Populating Subject Enrolled table

Populating Form Table

2. **Import the MySQL database/tables in MySQL DBMS.**

   Creating database for Student in talend
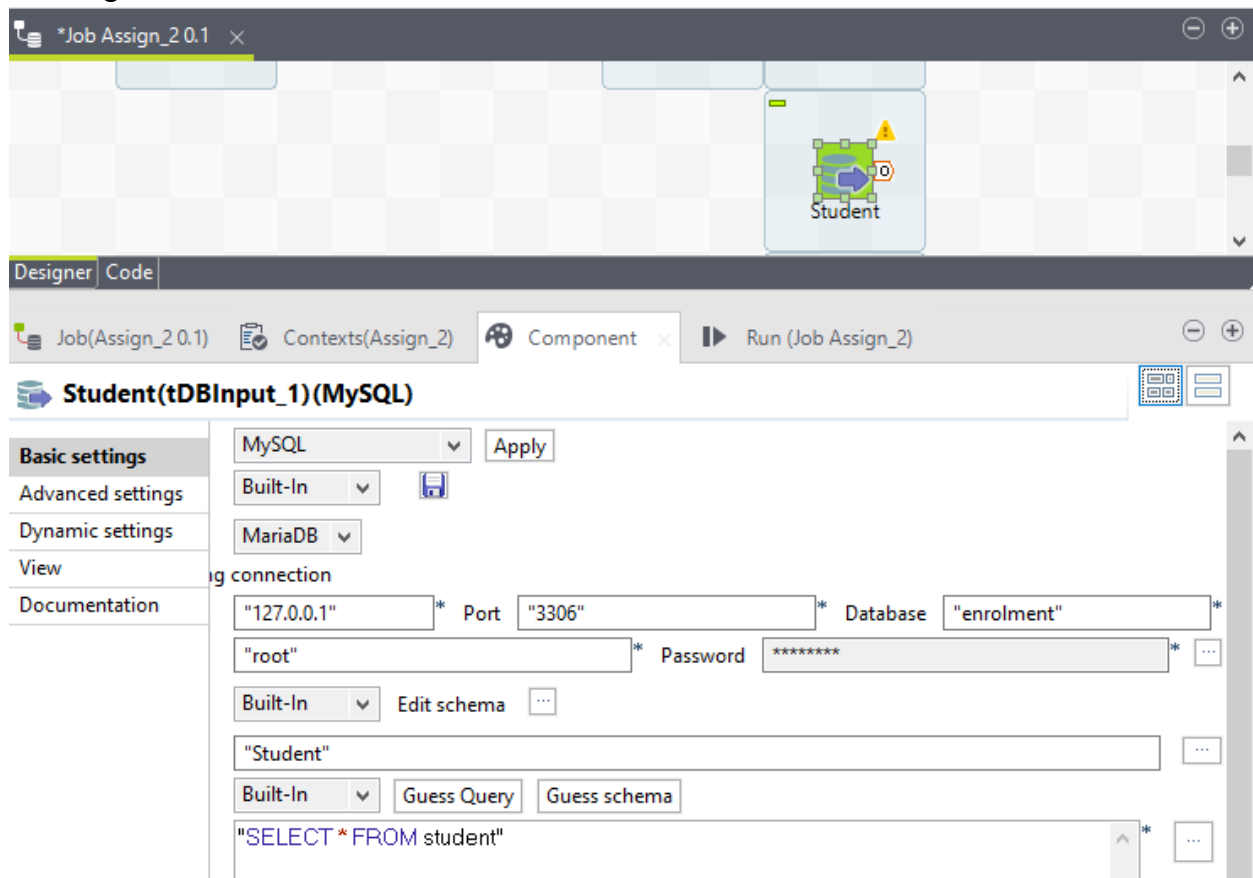
   Checking the schema of student

Column	Db Column	Key	Type	DB Type	☑ Nullable	Date Pattern (Ctrl...	Length	Precision
STUDNO	STUDNO	☐	String	CHAR	☐		40	0
LNAME	LNAME	☐	String	CHAR	☐		80	0
FNAME	FNAME	☐	String	CHAR	☐		80	0
MNAME	MNAME	☐	String	CHAR	☑		80	0
PROGRAM	PROGRAM	☐	String	CHAR	☐		40	0
YEARLEVEL	YEARLEVEL	☐	String	CHAR	☐		4	0
NATIONALITY	NATIONALITY	☐	String	CHAR	☑		40	0
GENDER	GENDER	☐	String	CHAR	☐		4	0

Creating database in talend for form

Checking the schema

Creating database in talend for subjects enrolled

Checking the schema

Column	Db Column	Key	Type	DB Type	☑	N..	Date Pattern (Ct...	Length	Precision	Default	Comment
SY_TERM	SY TERM	☐	String	CHAR	☐			44	0		
STUDNO	STUDNO	☐	String	CHAR	☐			40	0		
COURSE_CODE	COURSE CODE	☐	String	CHAR	☐			40	0		
SECTION	SECTION	☐	String	CHAR	☐			20	0		
FINAL_GRADE	FINAL GRADE	☐	String	CHAR	☑			20	0		
C_GRADE	C GRADE	☐	String	CHAR	☑			20	0		
REMARK	REMARK	☐	String	CHAR	☑			40	0		

Creating database for schedule excel file in talend using the database in workspace

Defining database

Connecting the tmap for schedule excel to the schedule database
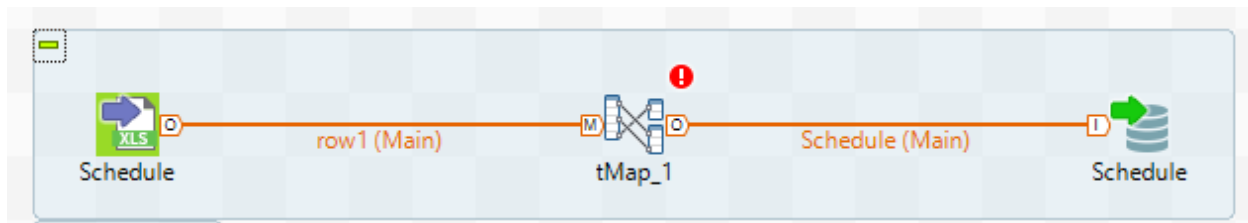
Configuring the tmap
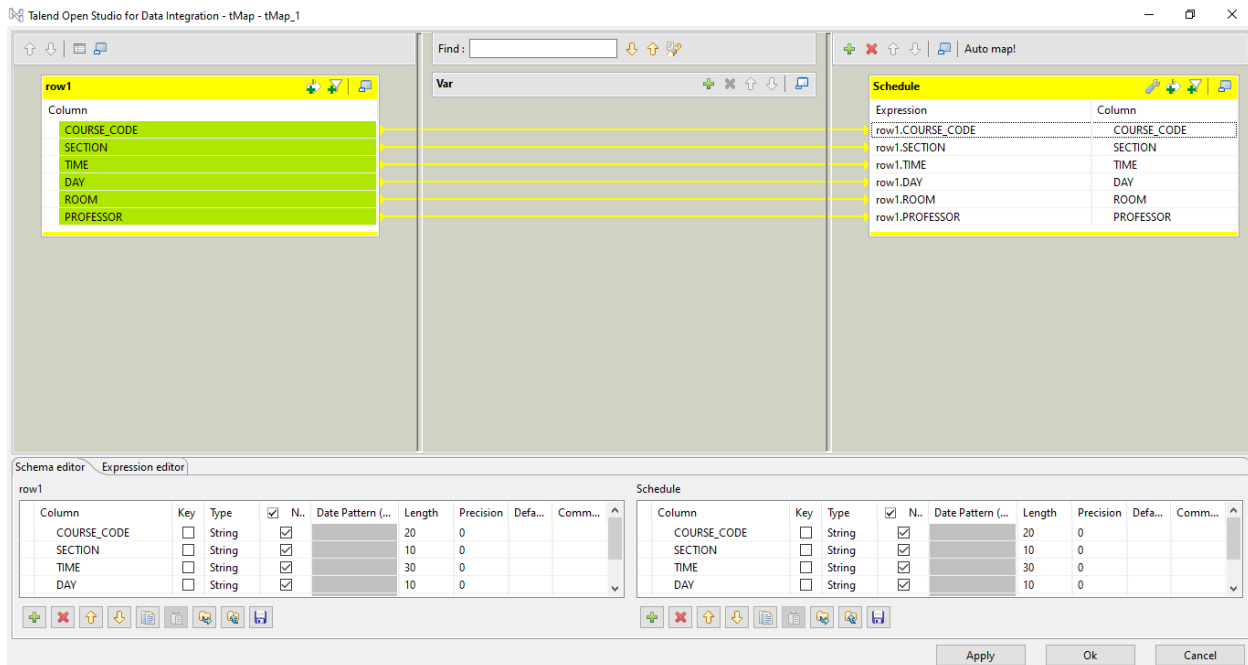
Configuring the database
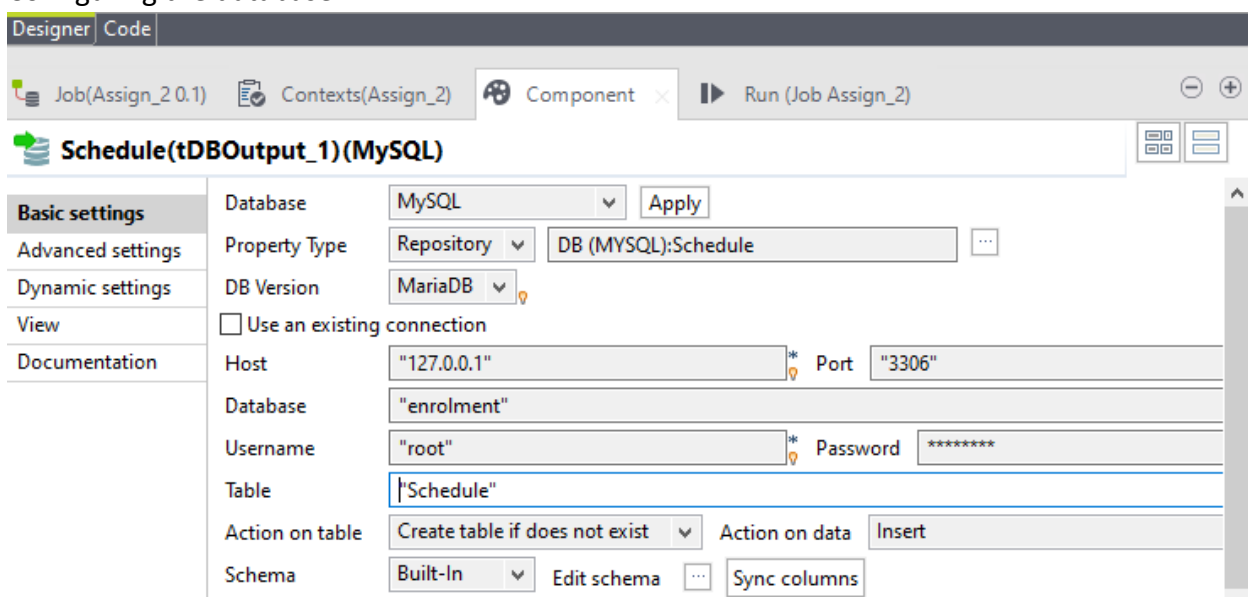
Creating database for contact excel file in talend using the database in workspace

Database Connection   — □ ✕

New Database Connection on repository - Step 1/2
⚠ It is inadvisable to leave the purpose blank.

Name	Contact
Purpose	
Description	
Author	user@talend.com
Locker	
Version	0.1 M m
Status	

< Back   Next >   Finish   Cancel

Defining the database

Database Connection   — □ ✕

New Database Connection on repository - Step 2/2
ⓘ You must press the Check Button to check the Database Setting

DB Type MySQL

Db Version	MariaDB
String of Connection	jdbc:mariadb://127.0.0.1:3306/enrolment?noDatetimeStringSync=true
Login	root
Password	•••••
Server	127.0.0.1
Port	3306
DataBase	enrolment
Additional parameters	noDatetimeStringSync=true

Test connection v

Connecting the tmap for contact excel to the contact database
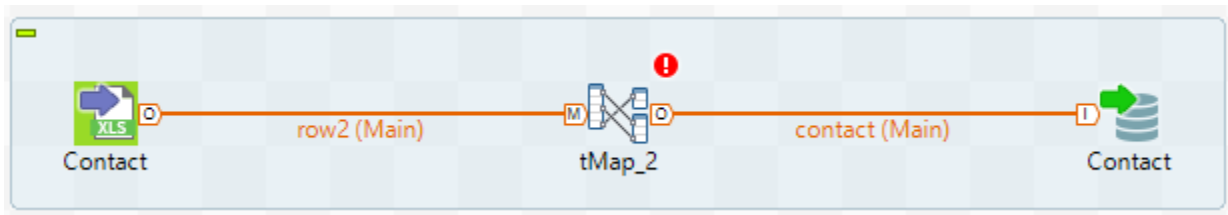
Configuring the tmap
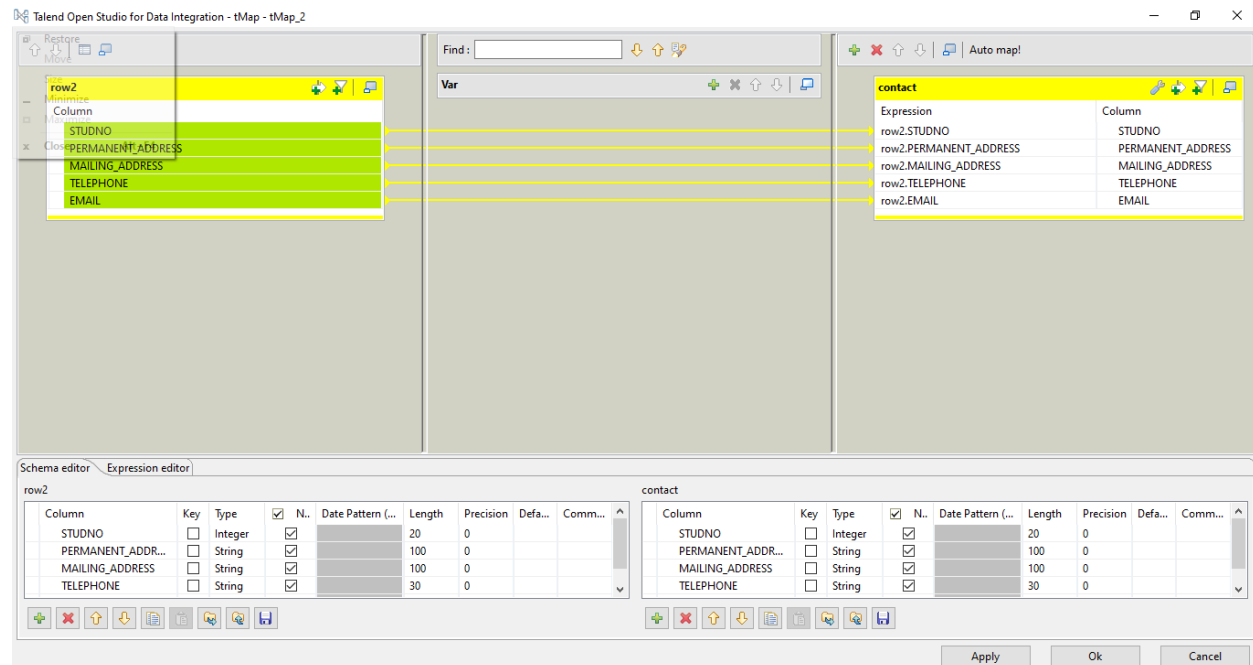
Configuring the database
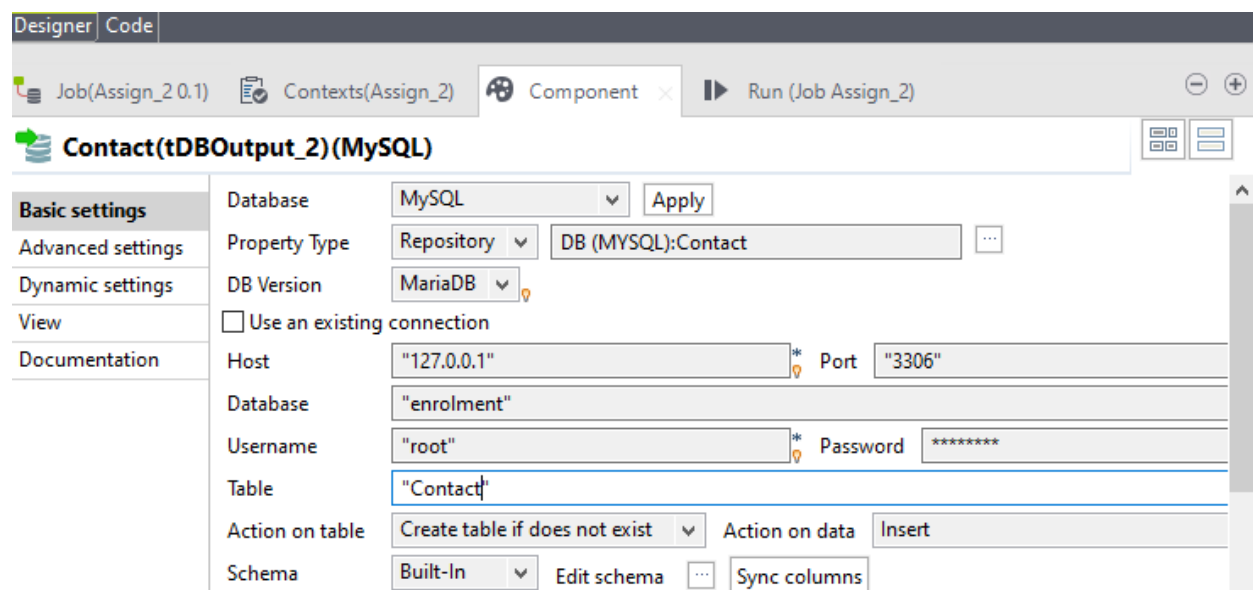
Running the code

3. **Using a Talend Data Integration tool, integrate all the data in just one, unified repository (e.g., Hive, SQL Server, etc.).**

Joining the Contact, Form, Schedule, Student, and Subjects in tMap

Creating a output file database

Configuring the database

Configuring tmap
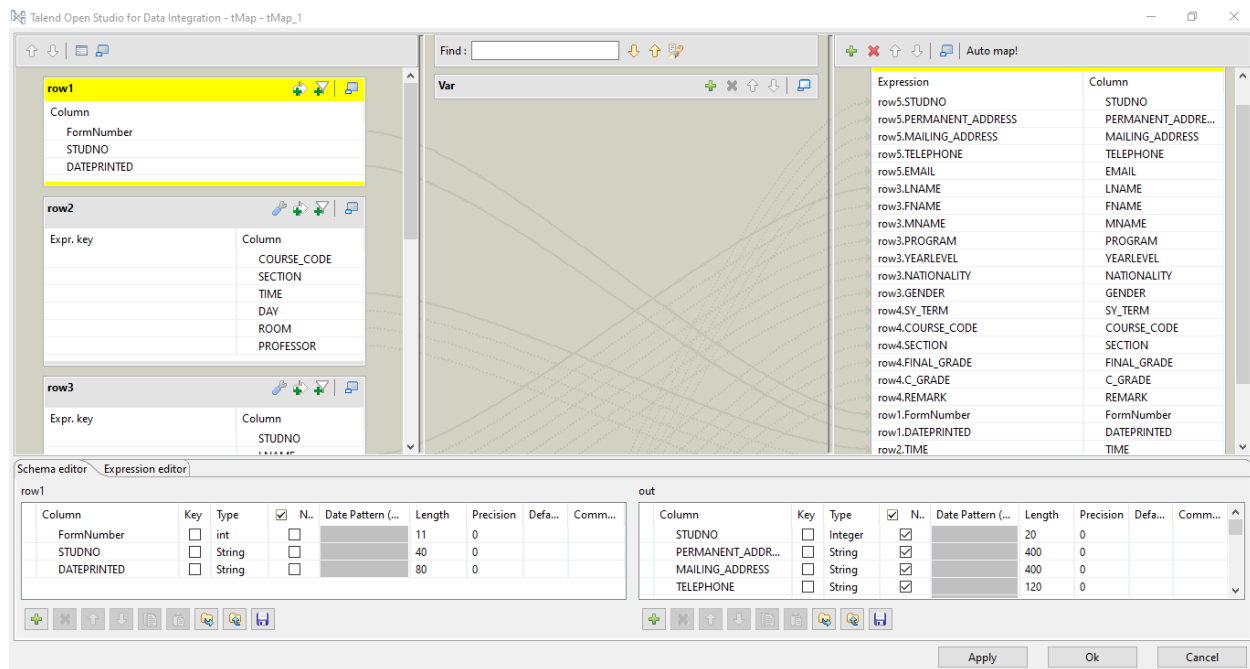
Running the code
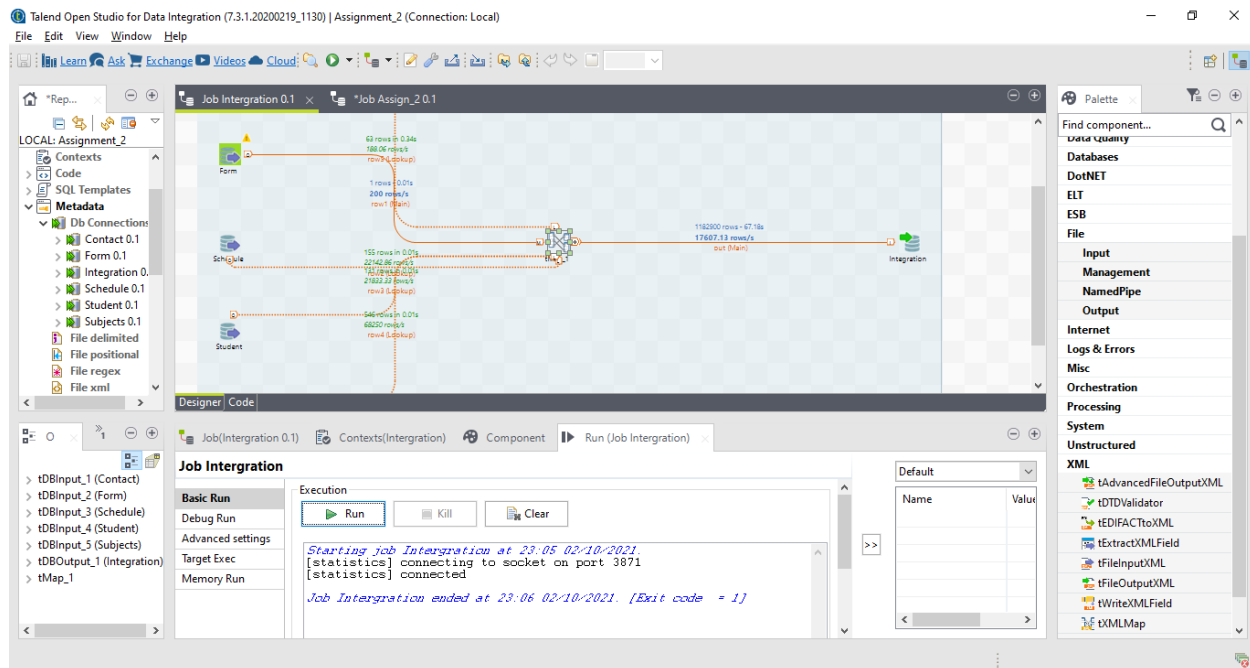
Displaying in workbench

STUDNO	PERMANENT_ADDRESS	MAILING_ADDRESS	TELEPHONE	EMAIL	LNAM
2005105725	1690 BALER ST.,MAKATI CITY	1690 BALER ST.,MAKATI CITY	9154776360	janvincent_rodriguez@yahoo.com	
2005160716	POBLACION, PULILAN, BULACAN	POBLACION, PULILAN, BULACAN 3005	9157499033	jeric_jcruz@yahoo.com	
2006103119	41 RIZAL ST. PENARANDA NUEVA ECIJA	41 RIZAL ST. PENARANDA NUEVA ECIJA	9275014578	gknives04@yahoo.com	
2006151614	BLOCK13 LOT14 PLA-PLA STREET BRGY LONGO...	BLOCK13 LOT14 PLA-PLA STREET BRGY LONGO...	9268101258	kris_pabustan@yahoo.com	
2007101181	BRGY USUSAN TAGUIG CITY	LUBANG OCCIDENTAL MINDORO	9154776360	paul_whitegold@yahoo.com	
2007101736	654 REMIGIA ST.,DE GUZMAN SUBD., CABANA...	ILANG ILANG STREET., GUADALUPE VIEJO, MA...	9154776360	dj_nacpil15@live.com	
2007103447	2027 GEN. RICARTE ST SOUTH CEMBO MAKATI...	2027 GEN. RICARTE ST SOUTH CEMBO MAKATI...	9154776360	sparda03@yahoo.com	
2007103483	BLK 1 LOT 4 FIESTA SOUTH HOMES, SALITRAN ...	BLK 1 LOT 4 FIESTA SOUTH HOMES, SALITRAN ...	9053158604	Jmelatina@live.co.uk	
2007140232	26 SALALILLA ST. PROJ. 4 Q.C.	26 SALALILLA ST. PROJ. 4 Q.C.	9154776360	czar8_camua@yahoo.com	
2008101547	T1 2308 Taft Ave. Pasay City	T1 2308 Taft Ave. Pasay City	9154776360	glentan_07@yahoo.com	
2008102122	#044 V. CONSTANTINO ST, BRGY. RAJAH SOLI...	2425B M. DELA CRUZ, STA. CLARA PASAY CITY	9165981602	alyssa.deveza@yahoo.com	
2008104186	621 ANTIPOLO ST. GAG. TONDO MLA.	621 ANTIPOLO ST. GAG. TONDO MLA.	9174634139	lovelyemeses@hotmail.com	
2008104606	B2 L17, NARRA ST., VERAVILLE HOMES 2, SUC...	B2 L17, NARRA ST., VERAVILLE HOMES 2, SUC...	9235953002	leonard_luzon2000@yahoo.com	
2008106073	2538 BONIFACIO ST. BANGKAL MAKATI CITY	2538 BONIFACIO ST. BANGKAL MAKATI CITY	9329755264	scifikiddo@yahoo.com	
2008106411	2427 HAVANA ST. STA.ANA MLA.	2427 HAVANA ST. STA.ANA MLA.	9323692752	elviners@yahoo.com	
2008140229	#40 12TH AVE. QUEZON CITY	#40 12TH AVE. QUEZON CITY	9176196718	josh_siryoso@yahoo.com	
2008140434	#41 FERRARI ST. VILLAGE EAST CAINTA RIZAL	#41 FERRARI ST. VILLAGE EAST CAINTA RIZAL	9273389596	ragnaron_07@yahoo.com	
2008140590	7 HONTIVEROS ST. BF HOMES QUEZON CITY	7 HONTIVEROS ST. BF HOMES QUEZON CITY	9167865548	antonettefer@yahoo.com	
2008140833	false	false	9163448303	gaviola_jomarie@yahoo.com	

4. **For extra score, used Talend to generate a table that contains the Student Number, Program, Year Level, Gender, and Load of each Enrolled Student.**

Creating new schema
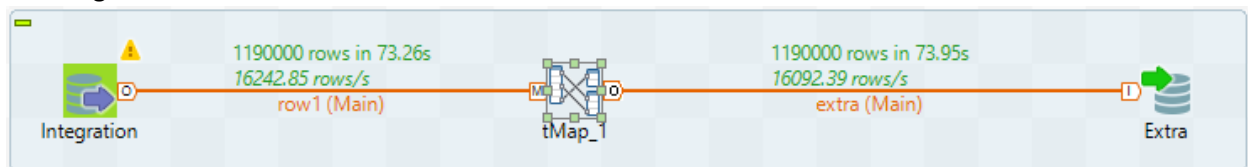
Configuring tmap

Running the code

Displaying the created table in the database

STUDNO	PROGRAM	YEARLEVEL	GENDER	COURSE_CODE	SECTION	ROOM	DAY	TIME	PROFESSOR
2001118122			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2004105021			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2004115108			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2005105725			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2005160716			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2006103119			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2006151614			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2007101181			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2007101736			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2007103447			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2007103483			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2007140232			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2008101547			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2008102122			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2008104186			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2008104606			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2008106073			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2008106411			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2008140229			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2008140434			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL
2008140590			M	CS135	BT1	MKT203	F	4:30 PM - 7:30 PM	NULL