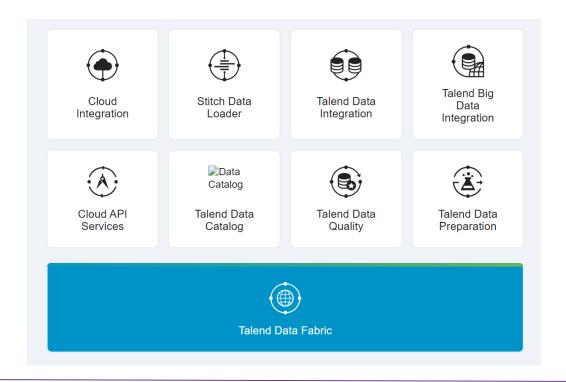
# Workshop



Talend Data Integration





# Workshop

- Import sql server database: info7370\_input
- Create info7370\_output database for:
  - Microsoft SQL Server
  - MySQL
  - PostgreSQL
  - Oracle database
- Create and load Chinook database for:
  - Microsoft SQL Server
  - MySQL
  - PostgreSQL
  - Oracle database

dbName	SchemaName	TableName	Table_Rows
info7370_input	dbo	BuyingGroups	2
info7370_input	dbo	Cities	37,940
info7370_input	dbo	ColdRoomTemperatures	33,510,516
info7370_input	dbo	Colors	36
info7370_input	dbo	Countries	190
info7370_input	dbo	CustomerCategories	8
info7370_input	dbo	Customers	719
info7370_input	dbo	CustomerTransactions	254,256
info7370_input	dbo	DeliveryMethods	10
info7370_input	dbo	OrderLines	588,331
info7370_input	dbo	Orders	192,244
info7370_input	dbo	PackageTypes	14
info7370_input	dbo	PaymentMethods	4
info7370_input	dbo	People	1,167
info7370_input	dbo	SpecialDeals	2
info7370_input	dbo	StateProvinces	53
info7370_input	dbo	StockGroups	10
info7370_input	dbo	StockItemHoldings	227
info7370_input	dbo	StockItems	227
info7370_input	dbo	StockItemStockGroups	442
info7370_input	dbo	StockItemTransactions	598,736
info7370_input	dbo	SupplierCategories	9
info7370_input	dbo	Suppliers	13
info7370_input	dbo	SupplierTransactions	5,413
info7370_input	dbo	TransactionTypes	13



### Data Integration Tasks - Introduction

- Read data source(s) & write to target(s)
  - Relational tables/views
  - csv files
  - Excel
- Data Source database(s) "Chinook" on various dbms
  - SQL Server, MySQL, Oracle, PostgreSQL
- Data Target database(s) "info7370\_output" on various dbms
  - SQL Server, MySQL, Oracle, PostgreSQL
- Primary data integration activity read data, filter data, join and/or lookup data and write
  - ER data model to "flattened" or denormalized files

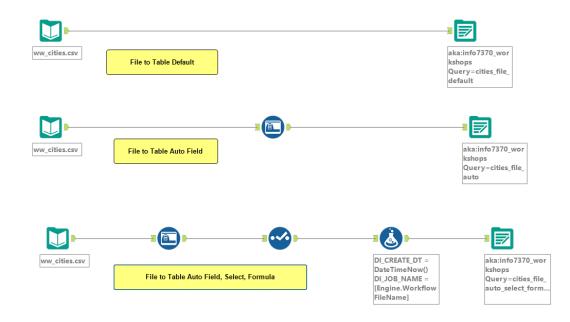


- DI\_Create\_DT, DateTime
- DI\_Job\_Name, varchar(20)

Column	DataType	Talend
di_tool	nvarchar(40)	Talend
di_job_id	nvarchar(40)	
di_job_name	nvarchar(40)	global.jobName
di_create_date	Datetime	getdate()

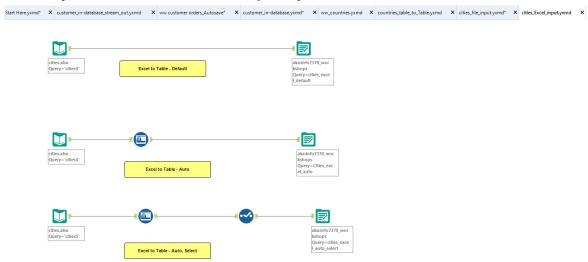


#### Alteryx: cities\_file\_input.yxmd



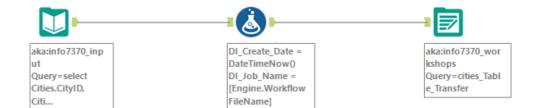


### Alteryx: cities\_Excel\_input.yxmd

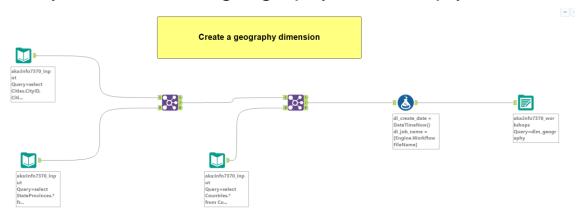


#### Alteryx: cities\_Table\_input.yxmd

Table to Table Transfer with Formulas



### Alteryx: create\_dim\_geography\_workshop.yxmd

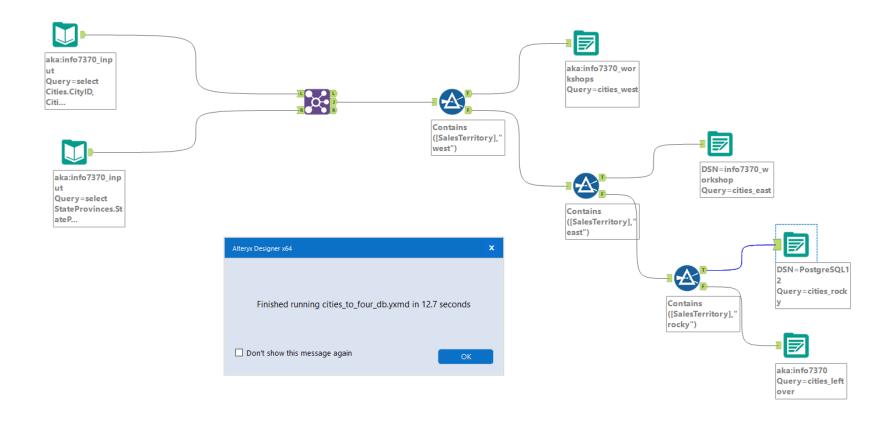




# Data Preparation<br/>More examples



# Alteryx: cities\_to\_four\_db.yxmd





# Data Integration<br/>More



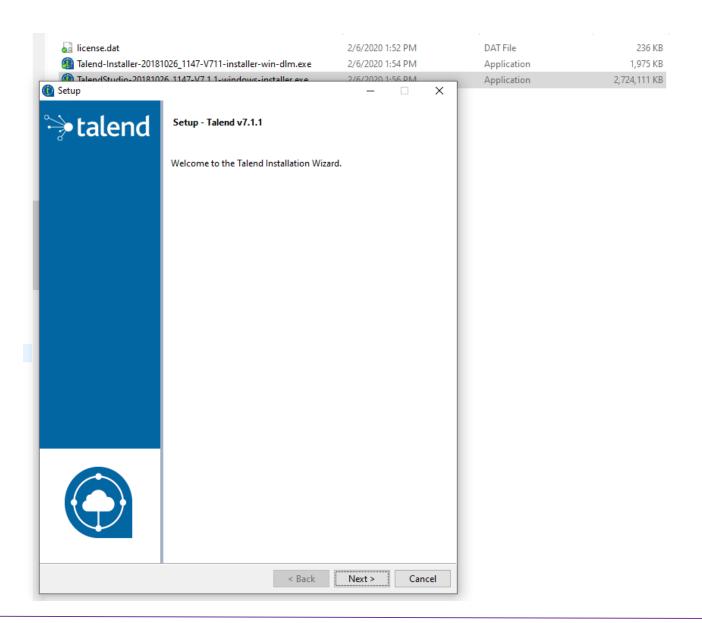
# **Installation & Setup Talend**

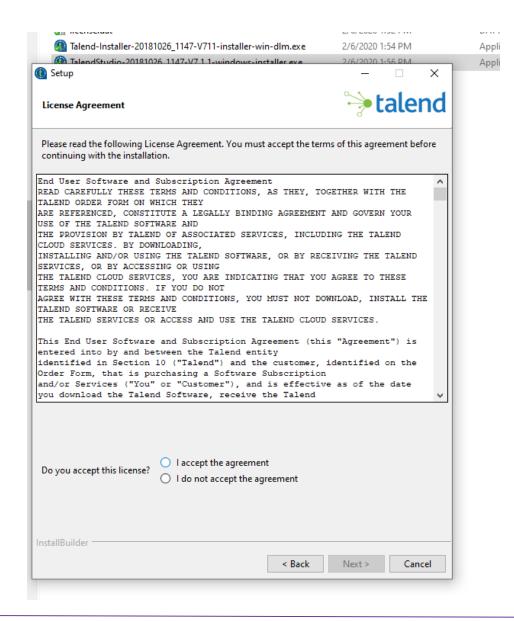


## **Talend Installation & Setup**

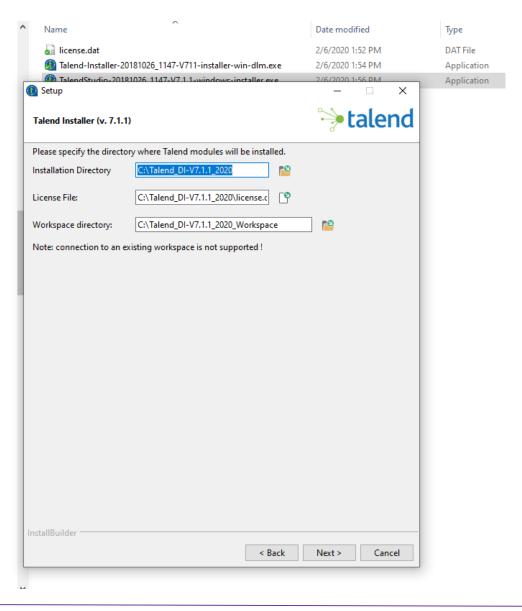
- Installing software assumption
- Modify Studio configuration
  - C:\Talend\_DI-V7.1.1\_2020 Primary\studio\Talend-Studio-win-x86\_64.ini
- Starting up Talend & installing required 3rd party
- Setup Show view: modules
- Ensuring jdbc & jars setup for databases
- Import archive file: workshop\_prep.zip
  - Sample jobs
  - Sample metadata db connections
- Run jobs to validate above setup

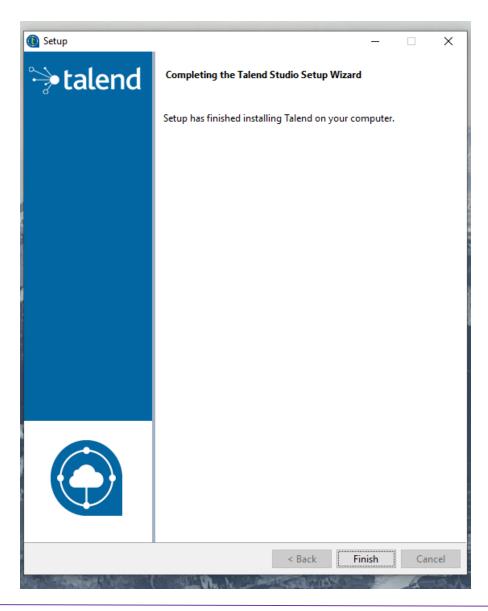












## Change Studio Maximum Memory

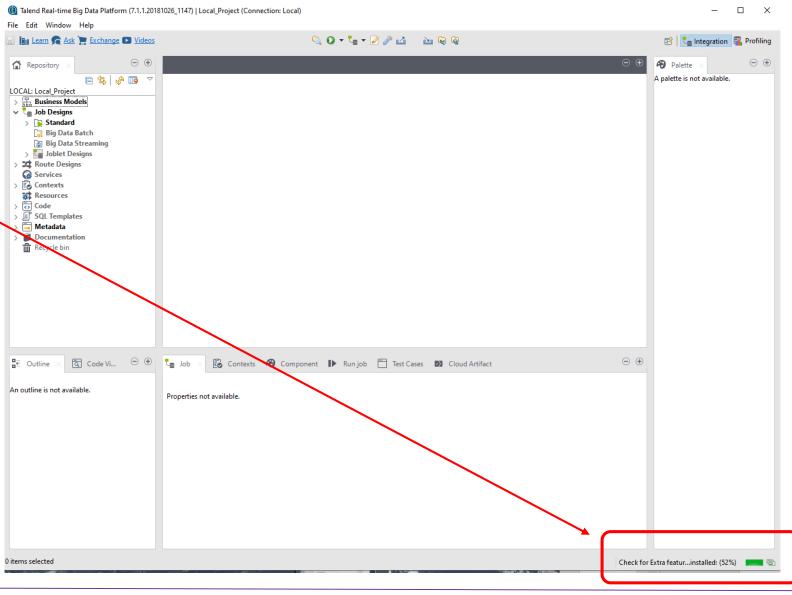
C:\Talend\_DI-V7.1.1\_2020 - Primary\studio\Talend-Studio-win-x86\_64.ini

Change this to:
notebook -Xmx
8G 2G
16G 4G
32G 8G

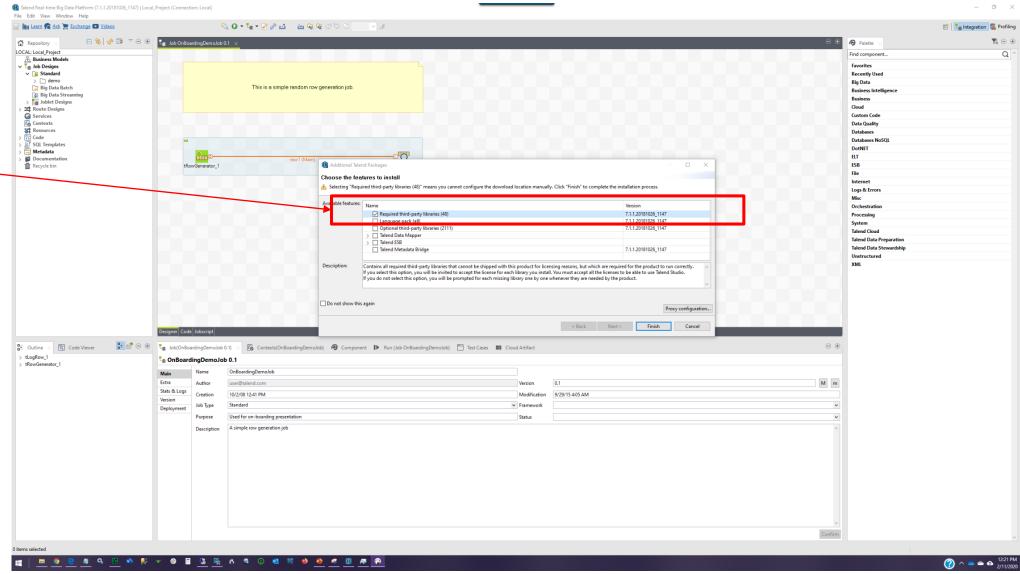


# Talend - Setup

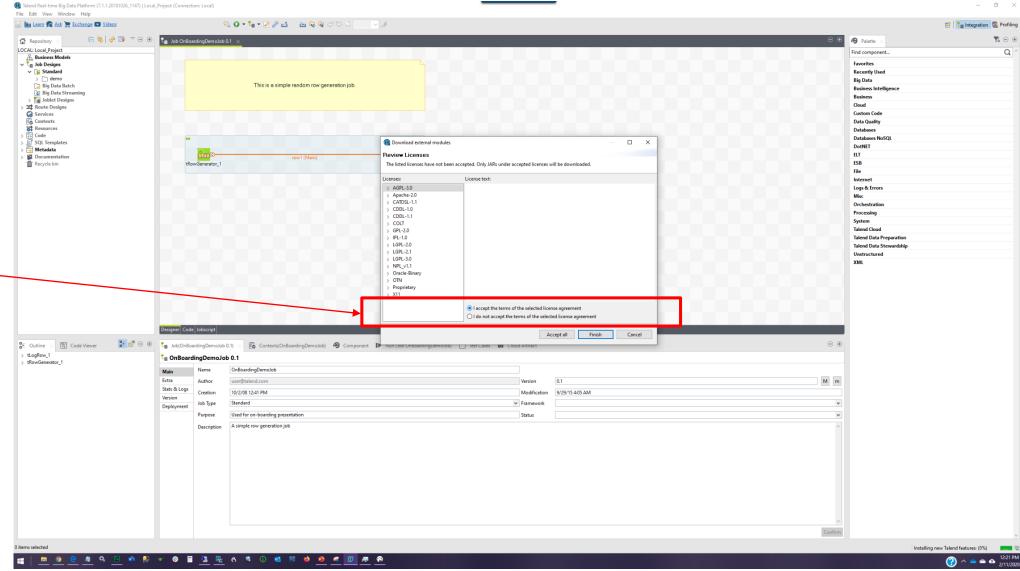
When 1st start
Talend need to
let this finish
before doing
anything



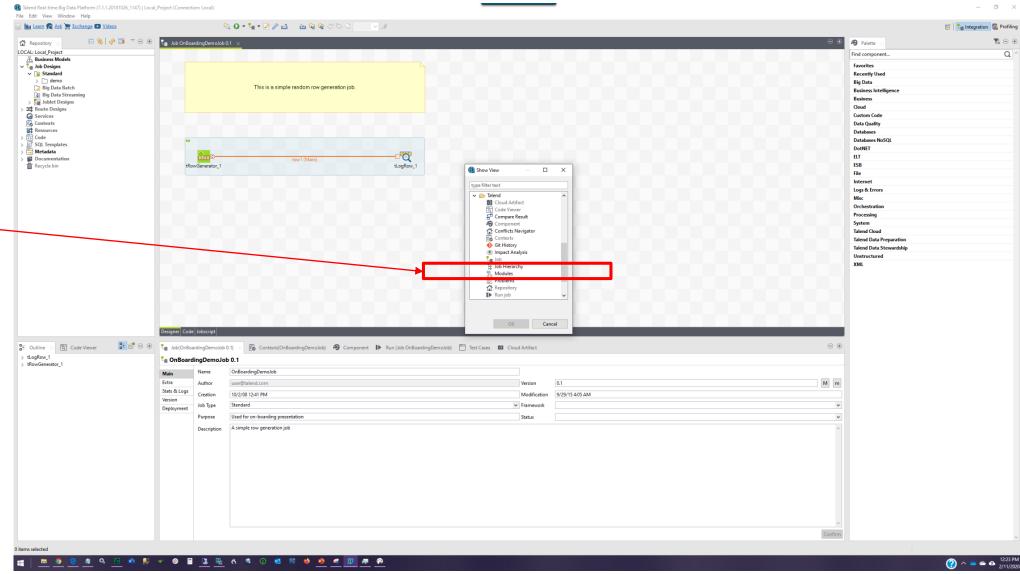
# Select Required third party libraries



# "I will accept..." & then Accept All button

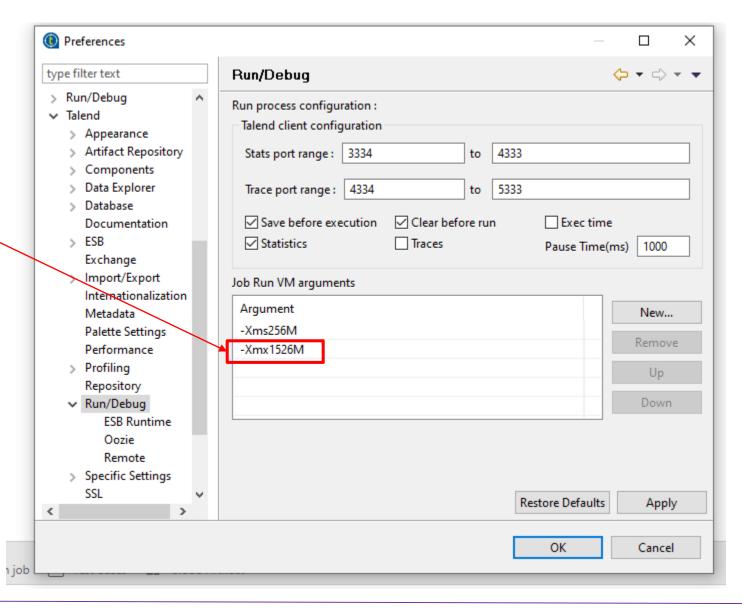


## Windows, Show Views, Select Talend-Modules



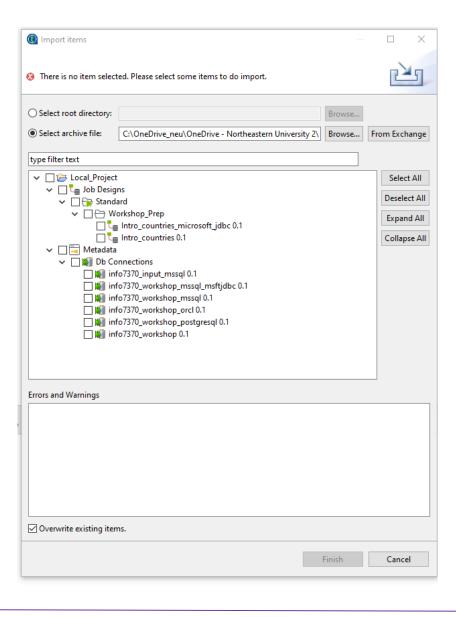
# Change Run/Debug Maximum Memory

Change this to:
notebook -Xmx
8G 3G
16G 8G
32G 12G





# Import Archive File



- Sample archive file
  - Jobs to test connections to our workshop databases
  - DB Connections



# Run sample jobs

