Module 6: Programming and Troubleshooting

Demo 1 – Solution

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Demo 1

➢ The task is to extract the Top 250 Movies list from IMDb. Following is the link for the same:

http://www.imdb.com/search/title?groups=top_250&sort=user_rating,desc

1. You have to extract the "title" of the movie, the "rating" for the movie and also the "URL"

2. Once you extract the List to your Data Table Variable, add a column to the Data Table variable named "Verdict"

3. Column "Verdict" should be filled with the following values for each of the movies

4. For ratings more than 9.0, it should have "Excellent"

5. For ratings between 8.5 and 9.0, the value should "Good"

6. For ratings below 8.5, the value should be "Average"

IMDb List

|	Name	URL	Ratin	Verdict
1	Name	URL	Ratin	Verdict
2	The Shawshank Redemption	/title/tt01111	9.3	Excellent
3	The Godfather	/title/tt00686	9.2	Excellent
4	The Dark Knight	/title/tt04685	9	Excellent
5	The Godfather: Part II	/title/tt00715	9	Excellent
6	Pulp Fiction	/title/tt01109	8.9	Good
7	The Lord of the Rings: The Re	/title/tt01672	8.9	Good

Output

Demo 3 – Solution

➢ **Step 1:** Create a blank project and, on the Design tab, in the File group, select New
-> Sequence. The New **Sequence** Diagram window is displayed. Give a name to the
Sequence.

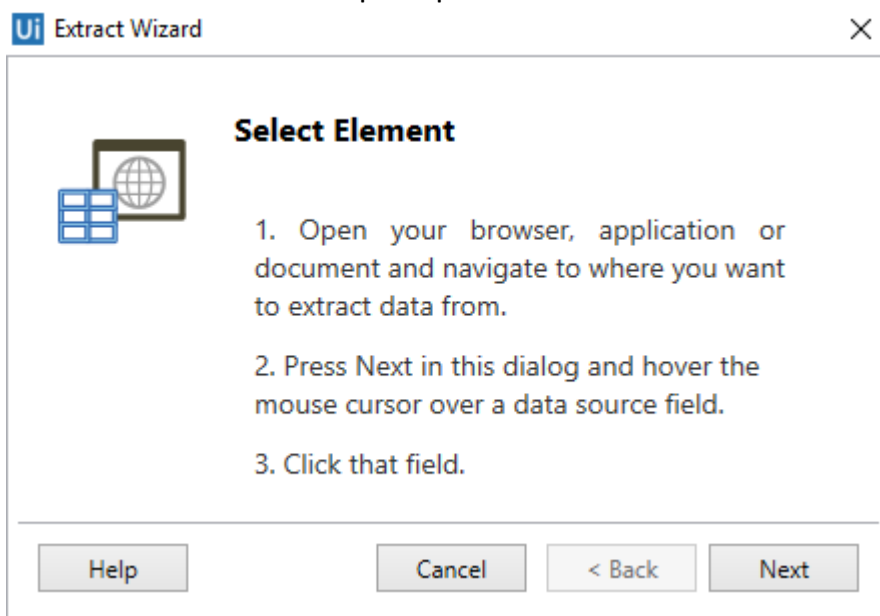➢ **Step 2:** Drag and Drop the **Open Browser Activity** in your sequence.
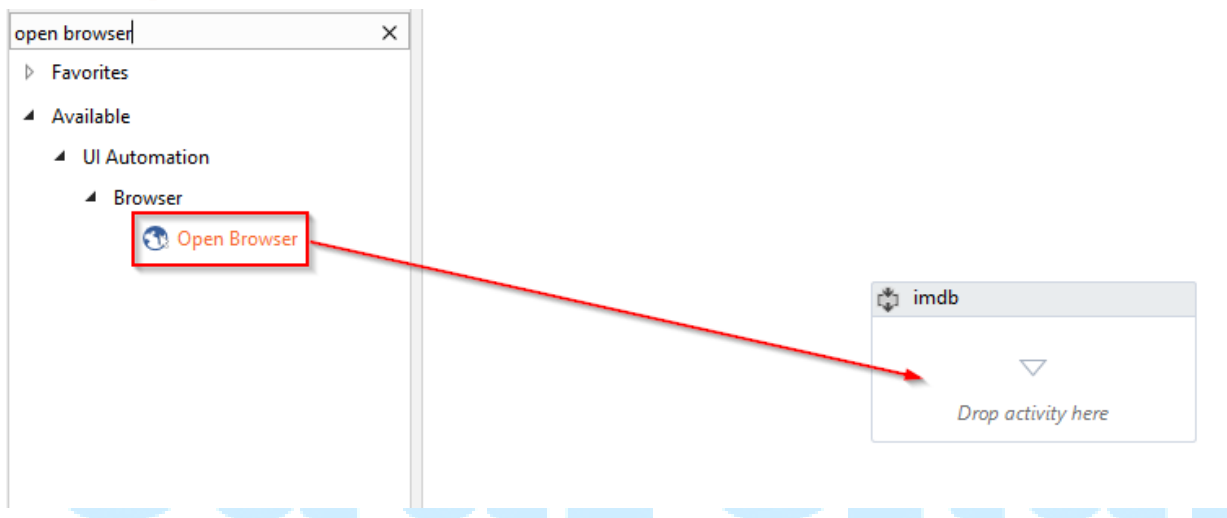
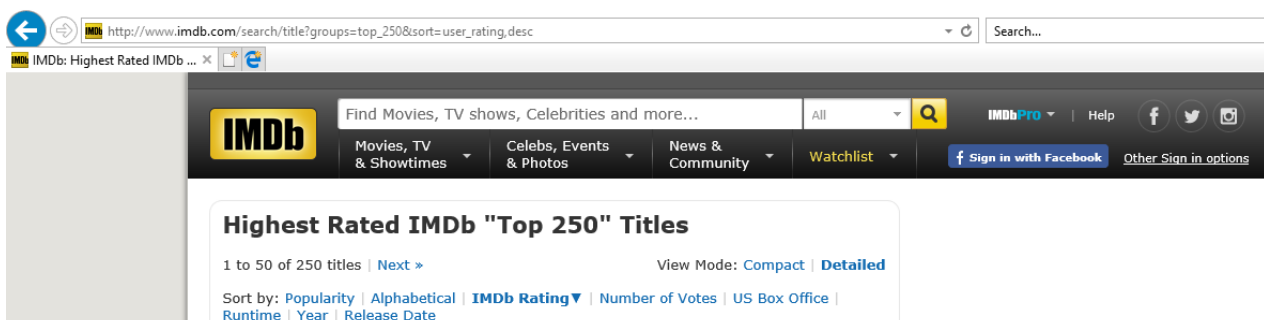1. Enter the following URL in the Open Browser activity.
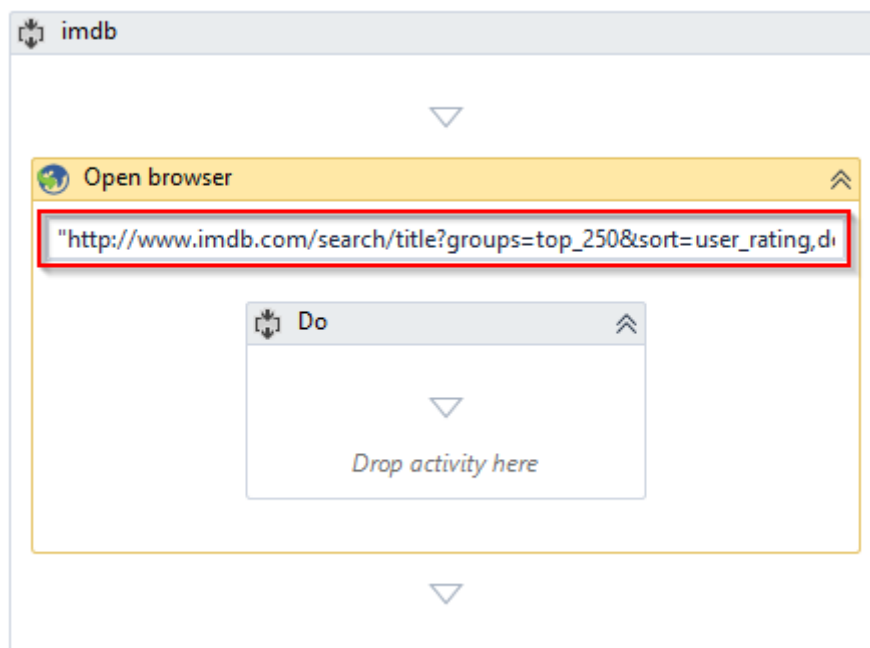
➢ **Step 3:** Select the **Do** container of the Open Browser Activity and click on **Data Scraping**.
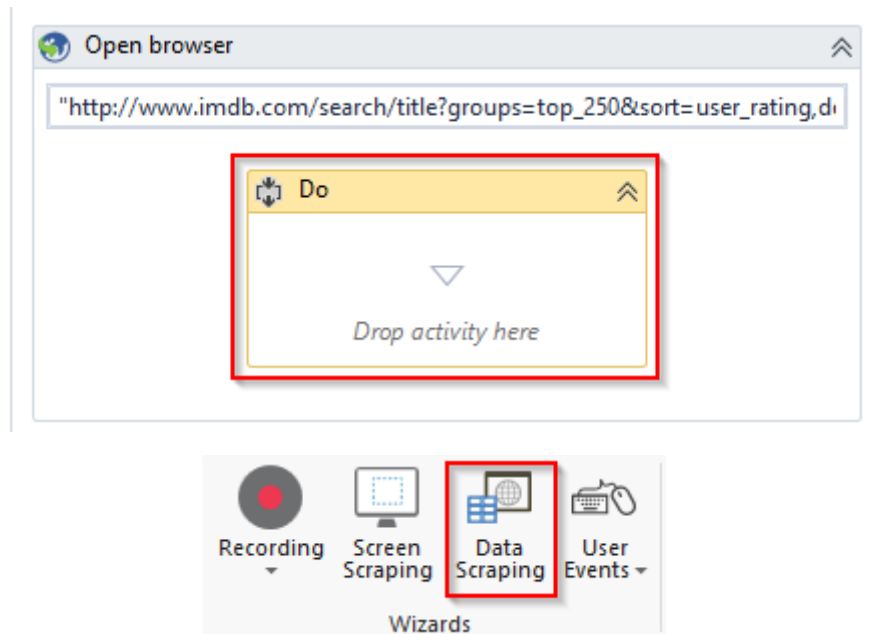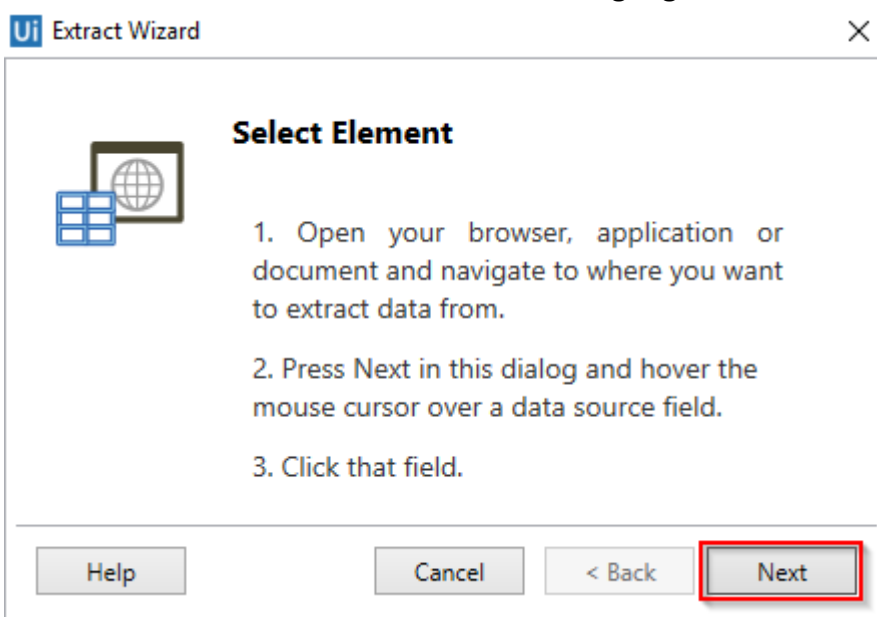

1. You will be prompted with the **Extract Wizard**.

2. Go to the URL you provided in the **Open Browser Activity**

3. On the **Extract Wizard**, click on **Next** and highlight a Movie's **Title**

Ui Extract Wizard   ✕

Select Element

1. Open your browser, application or document and navigate to where you want to extract data from.

2. Press Next in this dialog and hover the mouse cursor over a data source field.

3. Click that field.

| Help | | Cancel | < Back | Next |

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1. **The Shawshank Redemption** (1994)   ➕

R | 142 min | Crime, Drama

⭐ 9.3   ☆ Rate this   80 Metascore

Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency.

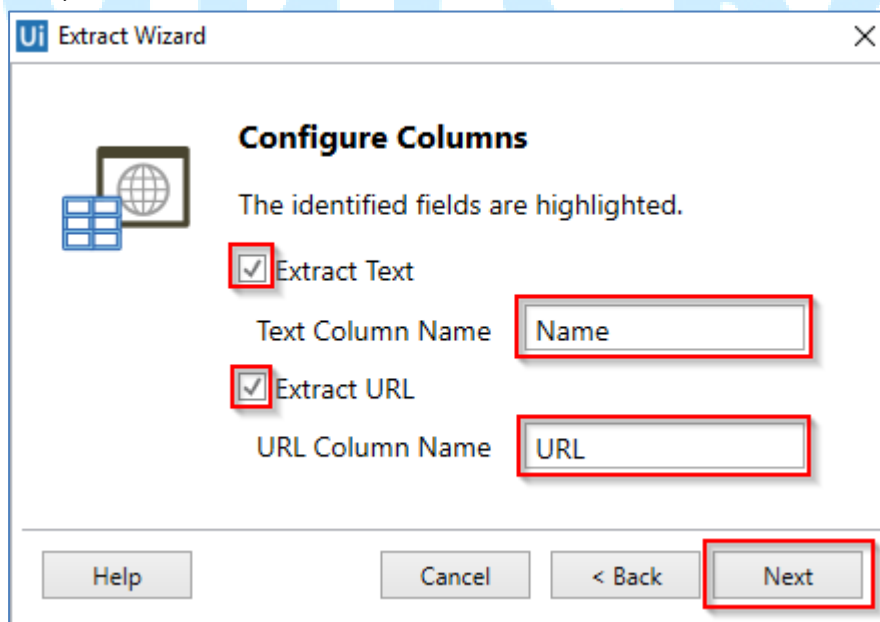Director: Frank Darabont | Stars: Tim Robbins, Morgan Freeman, Bob Gunton, William Sadler

Votes: 1,876,936 | Gross: $28.34M

4. Click on **Next** and highlight the next movie's title to create a pattern
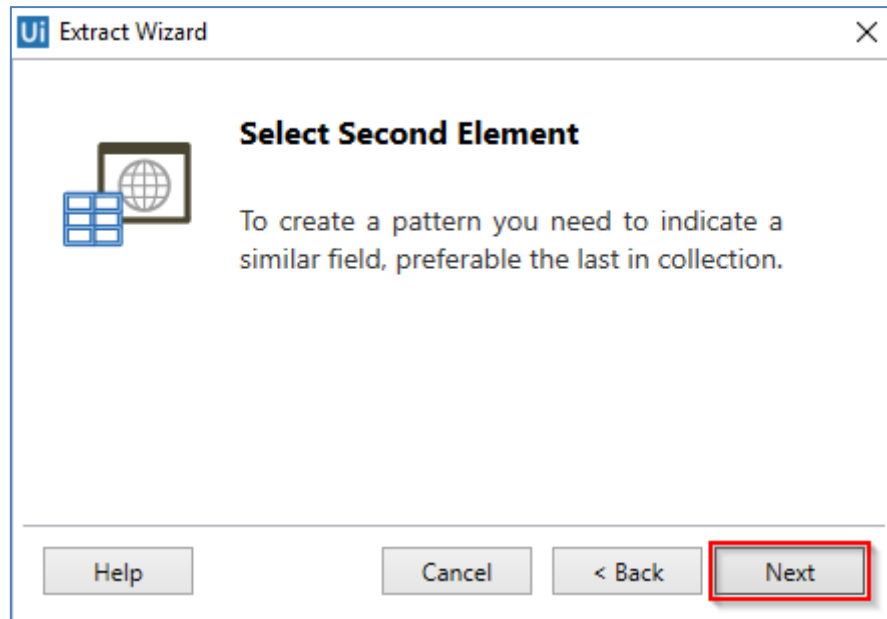
5. Set Column Names and Check on **Extract URL** and Set its Column name to **URL**, click on **Next**

6. Set the **Maximum number of results** to **250** and click on **Extract Corelated Data**

The Lord of the Rings: The Two Towers	/title/tt0167261/?ref_=adv_li_tt
Goodfellas	/title/tt0099685/?ref_=adv_li_tt
One Flew Over the Cuckoo's Nest	/title/tt0073486/?ref_=adv_li_tt
Seven Samurai	/title/tt0047478/?ref_=adv_li_tt

Edit Data Definition   Maximum number of results (0 for all)   250

Help   Cancel   < Back   Extract Correlated Data   Finish

7. Select the rating of a movie and click **Next**

1. **The Shawshank Redemption** (1994)

R | 142 min | Crime, Drama

⭐ 9.3   ☆ Rate this   80 Metascore

Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency.

Director: Frank Darabont | Stars: Tim Robbins, Morgan Freeman, Bob Gunton, William Sadler

Votes: 1,876,936 | Gross: $28.34M

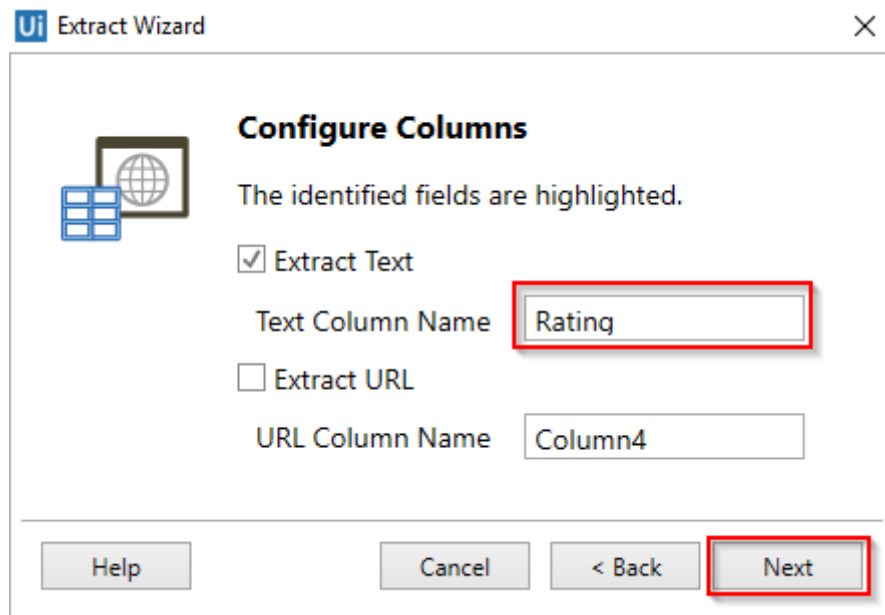Ui Extract Wizard   ✕

Select Second Element

To create a pattern you need to indicate a similar field, preferable the last in collection.

Help   Cancel   < Back   Next

8. Click on another movie rating to create a pattern. Name the column as **Rating** and click on **Next**

9. Click on **Finish**.

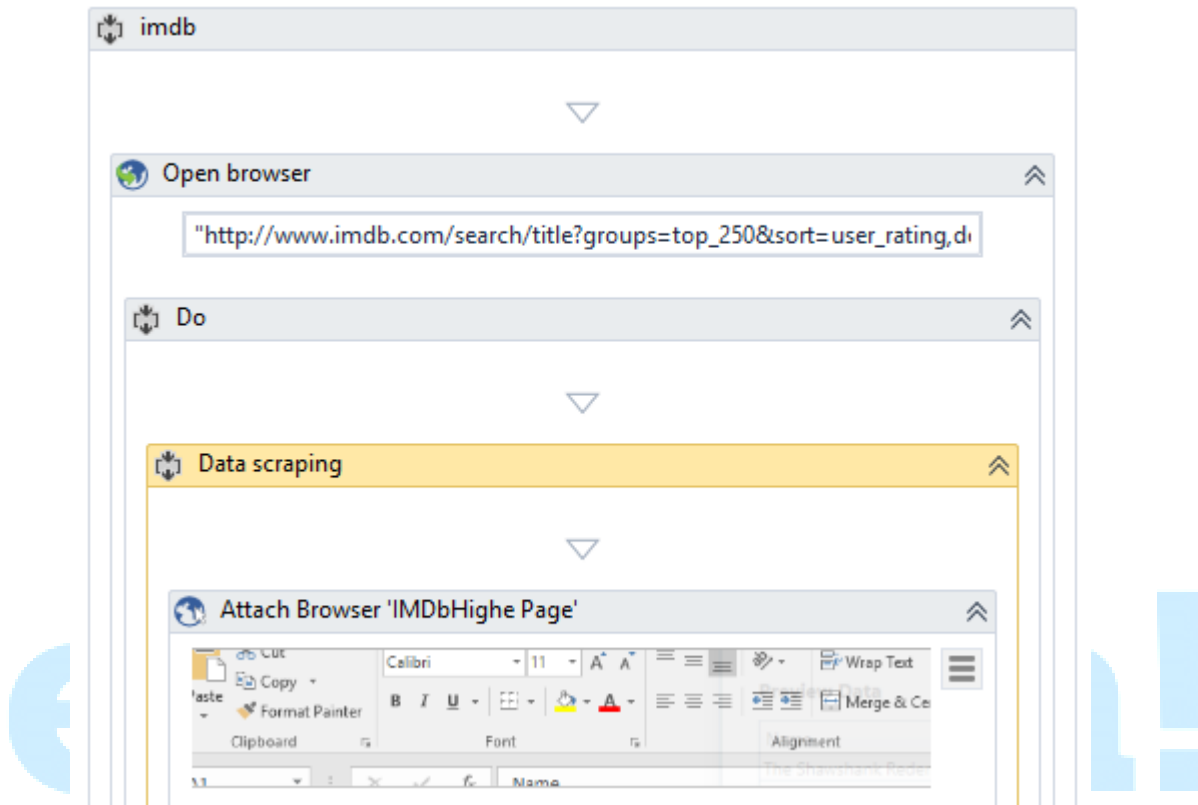10. Click on **Yes** because data is spanning multiple pages and highlight the **Next** Button of the IMDB page

11. Your **Data Scraping** Sequence will look like this.
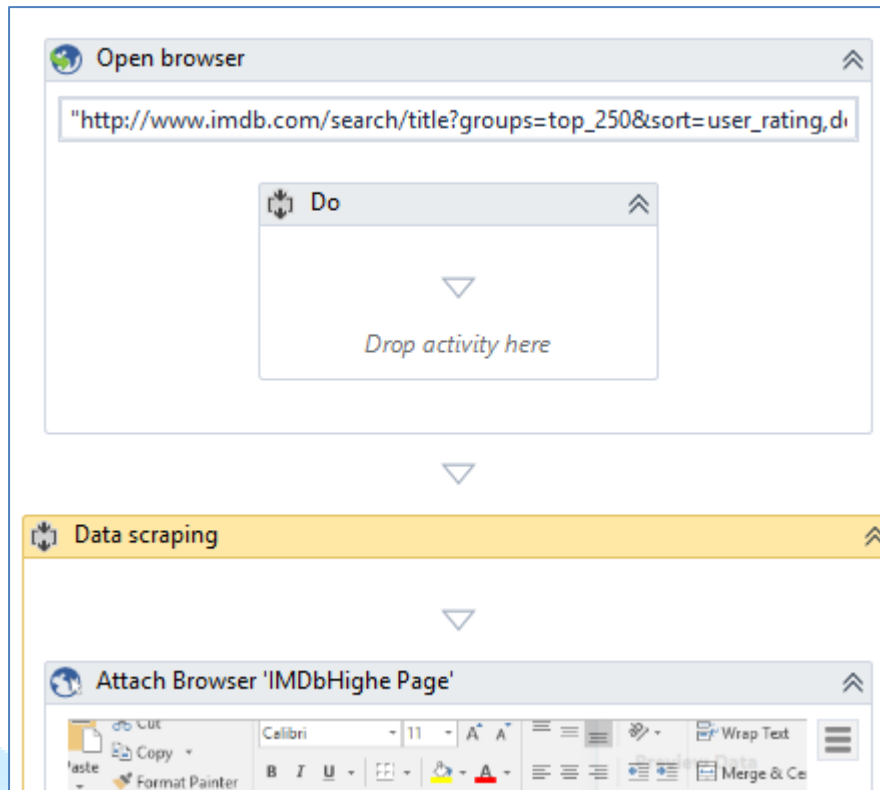
12. **Move your Data Scraping Sequence into the Do container of the Open Browser Activity**. You sequence should look like this:
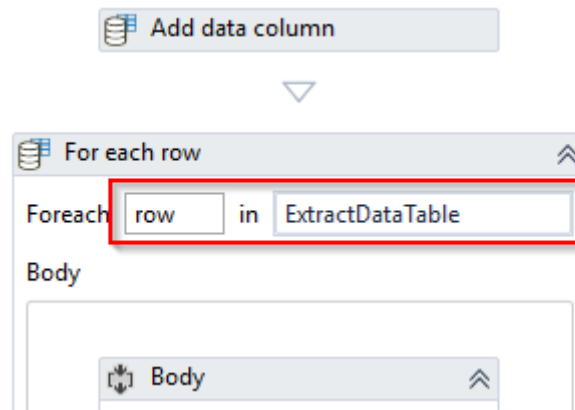

➤ Step 4:

1. Back to your UiPath Studio, add an **Add Column** activity under Extract Structured Data activity.
2. In its Input Property, set **ColumnName** to "**Verdict**"
3. **DataTable** to "**ExtractDataTable**" variable
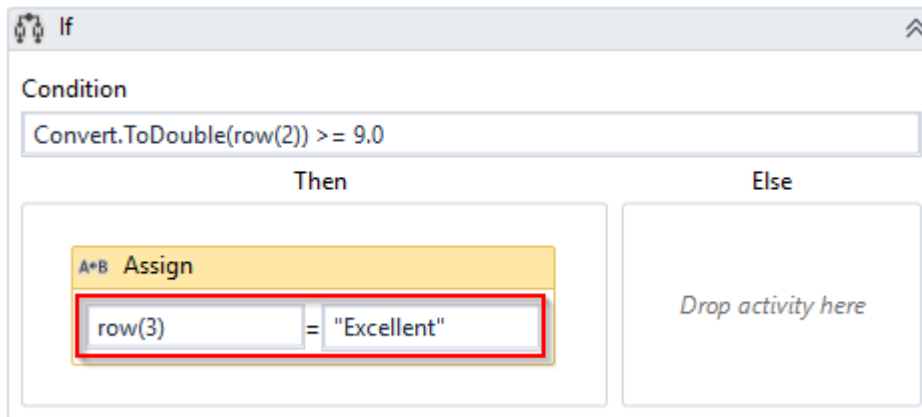4. **TypeArgument** to **String**
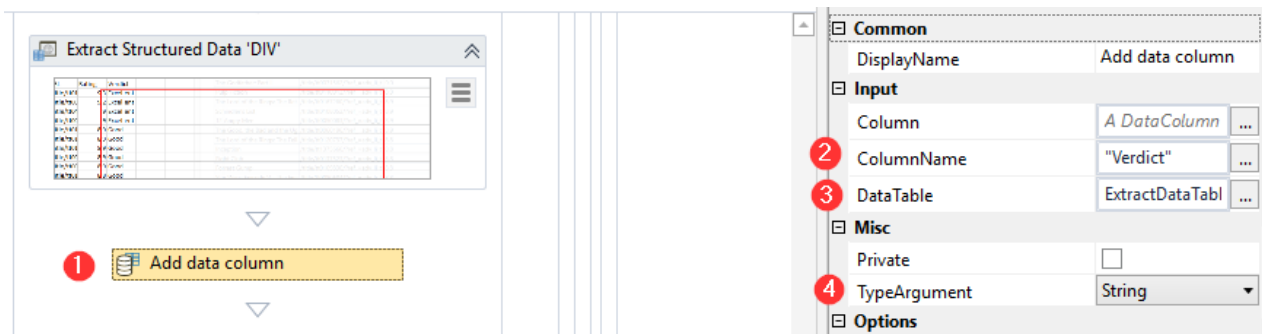
➢ **Step 5:** Now add a **For each row** activity after the **Add Data Column** activity and set the condition as For each **row** in **ExtractDataTable**:

➢ **Step 6:** In the body of For each row activity, add an **If** sequence and set the condition to **Convert.ToDouble(row(2)) >= 9.0**
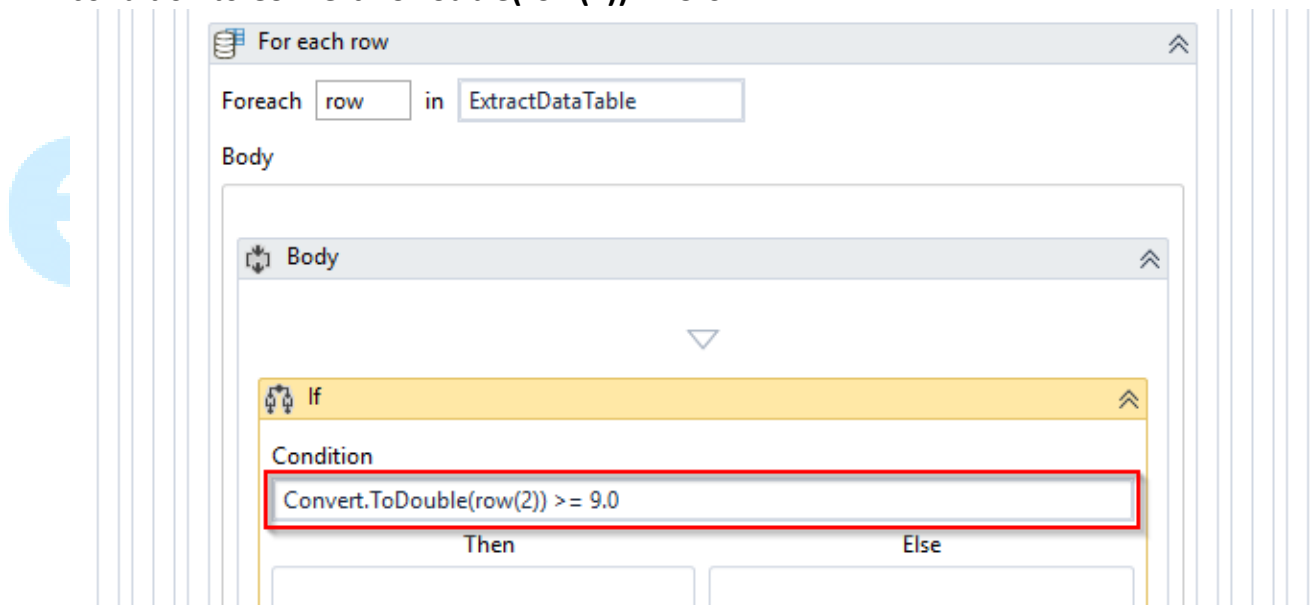
➢ **Step 7:** Now add an **Assign** activity in the **then** condition of the **If** activity and set row(3) = Excellent.
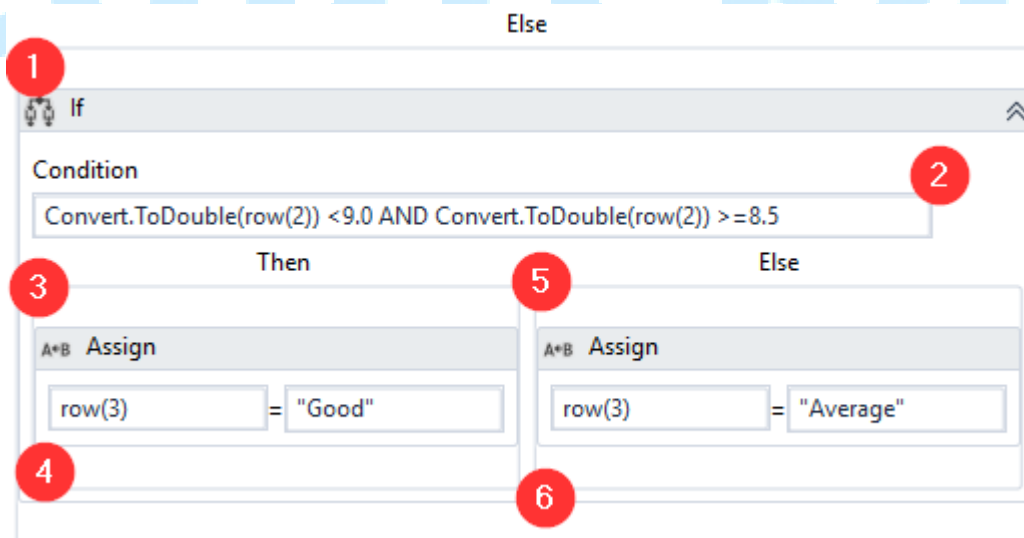

➢ **Step 8:** In the Else condition of the If activity:
1. Add another **If** activity
2. Set its condition to :
   Convert.ToDouble(row(2)) <9.0 AND Convert.ToDouble(row(2)) >=8.5
3. In its **Then** condition, add an Assign activity
4. Set **row(3) = "Good"** in that Assign activity
5. In the **Else** condition of the If, add an **Assign** activity
6. Set **row(3) = "Average"**

➢ **Step 9:** After the **For each row** activity, add a **Write CSV** activity:

1. Click on **Browse** button and select the CSV file where you want to store all the extracted data
2. Set **ExtractDataTable** variable
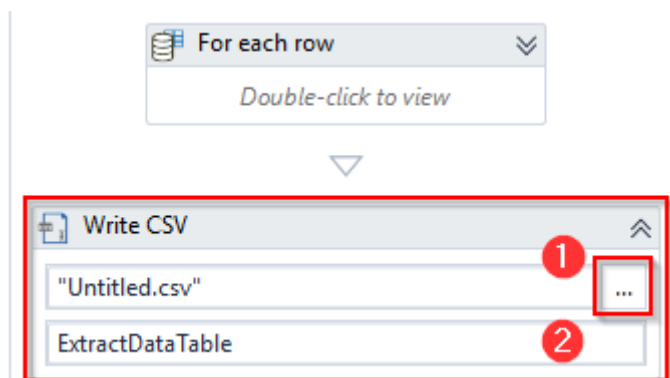
➢ **Step 10:** Now run the project. You will see that all the top 250 IMDB movie's data is populated in the CSV file you specified with the specified column names.

	A	B	C	D
1	Name	URL	Rating	Verdict
2	The Shaw:	/title/tt01	9.3	Excellent
3	The Godfa	/title/tt00	9.2	Excellent
4	The Dark I	/title/tt04	9	Excellent
5	The Godfa	/title/tt00	9	Excellent
6	Pulp Fictic	/title/tt01	8.9	Good
7	The Lord c	/title/tt01	8.9	Good
8	Schindler'	/title/tt01	8.9	Good
9	12 Angry N	/title/tt00	8.9	Good
10	The Good,	/title/tt00	8.9	Good